TANK TONIC

**CUSTOMER: 334286** 

BATCH #: 112570022

ZONE #:200

E#:1Z9594500300985076 3A'

PR CT NAME: TANK TONIC

Material Safety Data Sheet: TANK TONIC

Issuing Date 07/12/2011

supercedes Date 06/10/2011

1. PRODUCT AND COMPANY IDENTIFICATION

roduct Name TANK TONIC tecommended use Biocidal product nformation on Manufacturer ERTIFIED LABS, DIV. OF NCH CORP.

3OX 152170 RVING, TEXAS 75015

Product Code 399J Chemical nature Organic materials **Emergency Telephone Number** 

CHEMTREC 1-800-424-9300

ORDER #: 462855

STICKER #: 112570297

2. HAZARDS IDENTIFICATION

**Emergency Overview** DANGER

Combustible liquid and vapor

Corrosive Causes skin and eye burns

Harmful if absorbed through skin May cause allergic skin reaction

May cause delayed lung injury and burns

Harmful or fatal if swallowed

Physical State Liquid

**Odor Amines** 

color Yellow - brown 'otential Health Effects 'rinciple Route of Exposure rimary Routes of Entry **\cute Effects** 

> Eyes Skin

Inhalation

estion

**Chronic Toxicity** 

arget Organ Effects **\ggravated Medical Conditions** otential Environmental Effects

Skin contact, Eye contact, Inhalation. Skin Absorption, Inhalation

Corrosive to the eyes and may cause severe damage including blindness.

Causes burns. May be absorbed through the skin in harmful amounts. May cause allergic skin reaction.

Harmful by inhalation. Causes burns. Inhalation may be fatal or cause delayed lung injury. Inhalation may cause central nervous system effects. May cause central nervous system depression. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness.

Ingestion causes burns of the upper digestive and respiratory tracts. Aspiration hazard if swallowed - can enter lungs and cause

Repeated and prolonged exposure to solvents may cause brain and nervous system damage. Inhaled corrosive substances can lead

to a toxic edema of the lungs. May cause sensitization by skin contact. Liver and kidney injuries may occur.

Eyes, Liver, Kidney, Respiratory system, Skin, Central nervous system.

Respiratory disorders, Skin disorders, Liver disorders, Kidney disorders, Neurological disorders.

See Section 12 for additional Ecological information.

3.	COMPOSITIO	1 / INFORMATION	ON INGREDIENTS

Component	CAS-No	
4-(2-Nitrobutyl)morpholine	2224-44-4	
Methylene dimorpholine	5625-90-1	
Morpholine	110-91-8	-
4,4'-(2-Ethyl-2-nitropropane-1,3-diyl)bismorpholine	1854-23-5	
1-Nitropropane	108-03-2	

### 4. FIRST AID MEASURES

Seneral Advice ye Contact kin Contact

nhalation

ngestion

Do not get in eyes, on skin or on clothing. Do not breathe vapors or spray mist.

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention immediately. Remove immediately all contaminated clothing. Wash off immediately with plenty of water for at least 15 minutes. Get medical

attention immediately.

Move to fresh air. In case of shortness of breath, give oxygen. If breathing has stopped, apply artificial respiration. Get medical attention if symptoms occur.

Drink 1 or 2 glasses of water. Do NOT induce vomiting. Get medical attention immediately. Never give anything by mouth to an unconscious person.

The product causes burns of eyes, skin and mucous membranes. Control of circulatory system, shock therapy if needed.

5. FIRE-FIGHTING MEASURES

lotes to physician

160 °F / 71 °C

Method

Pensky Marten Closed Tester

utoignition Temperature No information available. lammability Limits in Air % Mixture.

Upper 11.2

Lower 1.4

uitable Extinguishing Media Vater spray. Dry chemical. Carbon dioxide (CO2). Alcohol-resistant foam. Toxicity to alone

1060	Toxicity	

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation	Draize Test	Other
4-(2-Nitrobutyl)morpholine	no data available	no data available	no data available	no data available	no data available
Methylene dimorpholine	no data available	no data available	no data available	no data available	no data available
Morpholine	1050 mg/kg ( Rat )	310 mg/kg (Rabbit)	no data available	no data available	no data available
(thyl-2-nitropropane-1,3-diyl) bismorpholine	no data available	no data available	no data available	no data available	no data available
1-Nitropropane	455 mg/kg ( Rat )	> 2000 mg/kg ( Rabbit )	11.02 mg/L (Rat) 1 h	no data available	no data available

hronic Toxicity

Component	Mutagenicity	Sensitization	Developmental Toxicity	Reproductive Toxicity	Target Organ Effects
4-(2-Nitrobutyl)morpholine	no data available	no data available	no data available	no data available	no data available
Methylene dimorpholine	no data available	no data available	no data available	no data available	no data available
Morpholine	no data available	no data available	no data available	no data available	eyes, kidneys, liver, respiratory system skin, CNS
4,4'-(2-Ethyl-2-nitropropane-1,3-diyl) bismorpholine	no data available	no data available	no data available	no data available	no data available
1-Nitropropane	no data available	no data available	no data available	no data available	CNS,eyes,liver,kidneys

arcinogenicity

There are no known carcinogenic chemicals in this product.

Component	ACGIH	IARC	NTP	OSHA	Other
4-(2-Nitrobutyl)morpholine	not applicable				
Methylene dimorpholine	not applicable				
Morpholine	not applicable				
4,4'-(2-Ethyl-2-nitropropane-1,3-diyl) bismorpholine	not applicable				
1-Nitropropane	not applicable				

### 12. ECOLOGICAL INFORMATION

Taviale, to fish

'roduct Information

EC50 0.35 mg/L 96 h		LC50 2.3 mg/L 96h	'	EC50 3.23 mg/L 72 h	
mponent Information					
Component	Toxicity to Algae	Toxicity to Fish	Microtox	Water Flea	log Pow
4-(2-Nitrobutyl)morpholine	no data available	no data available	no data available	no data available	N/A
Methylene dimorpholine	no data available	no data available	no data available	no data available	N/A
Morpholine	EC50 28 mg/L Pseudokirchneriella subcapitata 96 h	LC50 350 mg/L Lepomis macrochirus 96 h LC50 375-460 mg/L Oncorhynchus mykiss 96 h LC50 > 1000 mg/L Brachydanio rerio 96 h	EC50 = 57.0 mg/L 30 min	EC50 100 mg/L 24 h	-2.55
2-nitropropane-1,3-diyl)bismorpholine	no data available	no data available	no data available	no data available	N/A
1-Nitropropane	EC50 98 mg/L Desmodesmus subspicatus 72 h	LC50 205 mg/L Brachydanio rerio 48 h	EC50 = 42.8 mg/L 5 min EC50 = 45.4 mg/L 15 min EC50 = 50.8 mg/L 30 min	EC50 258 mg/L 24 h	0.851

'ersistence and Degradability

**3ioaccumulation** /lobility

Readily biodegradable. No information available. No information available.

# 13. DISPOSAL CONSIDERATIONS

roduct Disposal container Disposal

Dispose of in accordance with local regulations.

Empty containers should be taken for local recycling, recovery, or waste disposal. Do not re-use empty containers.

### 14. TRANSPORT INFORMATION

OT

**Proper Shipping Name** 

Disinfectants, liquid, toxic, n.o.s.

**Hazard Class** UN-No

6.1 UN3142

Packing Group Description

Disinfectants, liquid, toxic, n.o.s.(4-(2-Nitrobutyl)-Morpholine),6.1,UN3142,PG III

'DG

Proper shipping name

Disinfectant, liquid, toxic, n.o.s.

**Hazard Class** UN-No Packing Group 6.1 UN3142

Description

111 DISINFECTANT, LIQUID, TOXIC, N.O.S.(4-(2-Nitrobutyl)-Morpholine),6.1,UN3142,PG III

CAO

UN-No

UN3142

**Proper Shipping Name** 

Disinfectant, liquid, toxic, n.o.s.\*

azard Class cking Group

nipping Description

Disinfectant, liquid, toxic, n.o.s.\*(4-(2-Nitrobutyl)-Morpholine),6.1,UN3142,PG III

**\TA** 

UN-No

UN3142

**Proper Shipping Name** Hazard Class

Disinfectant, liquid, toxic, n.o.s.\*

6.1



Tile Lab Surfacegard Penetrating Sealer

# Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name:

Tile Lab Surfacegard Penetrating Sealer

**Product Use:** 

Sealer.

Manufacturer/Supplier:

Custom Building Products 13001 Seal Beach Blvd

Seal Beach, CA 90740

Phone Number:

(562) 598-8808

**Emergency Phone:** 

INFOTRAC 1-800-535-5053 (US and Canada)

INTERNATIONAL + 1-352-323-3500

Date of Preparation:

December 31, 2008

Revision Date: September 11, 2012

# **Section 2: HAZARDS IDENTIFICATION**

### **EMERGENCY OVERVIEW**

CAUTION

MAY CAUSE EYE IRRITATION. MAY CAUSE SKIN IRRITATION.

Potential Health Effects: See Section 11 for more information.

Likely Routes of Exposure: Skin contact, eye contact, inhalation, and ingestion.

Eye:

May cause eye irritation.

Skin:

May cause skin irritation.

Ingestion:

May be harmful if swallowed. May cause stomach distress, nausea or vomiting.

Inhalation:

tion: May cause respiratory tract irritation.

Chronic Effects: Prolonged or repeated contact may dry skin and cause irritation.

**Signs and Symptoms:** Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva. Symptoms may include redness, drying, and cracking of the skin.

Medical Conditions Aggravated By Exposure: Asthma. Allergies.

Target Organs: Skin, eyes, gastrointestinal tract, respiratory system.

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

Potential Environmental Effects: May cause long-term adverse effects in the aquatic environment. See Section 12 for more information.

# Section 3: COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient

CAS#

Wt. %

Diethylene glycol monobutyl ether

112-34-5

1 - 5

# Section 4: FIRST AID MEASURES

Eye Contact:

In case of contact, immediately flush eyes with plenty of water. If easy to do,

remove contact lenses, if worn.



Tile Lab Surfacegard Penetrating Sealer

Skin Contact:

In case of contact, immediately flush skin with plenty of water. Remove

contaminated clothing and shoes. Wash clothing before reuse. Call a physician

if irritation develops and persists.

Inhalation:

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If

breathing is difficult, give oxygen.

Ingestion:

If swallowed, do NOT induce vomiting unless directed to do so by medical

personnel. Never give anything by mouth to an unconscious person.

General Advice: In case of accident or if you feel unwell, seek medical advice immediately (show the label or MSDS where possible).

Note to Physicians: Symptoms may not appear immediately.

# Section 5: FIRE FIGHTING MEASURES

Flammability: Not flammable by WHMIS/OSHA criteria.

Means of Extinction:

Suitable Extinguishing Media: Treat for surrounding material.

Unsuitable Extinguishing Media: Not available.

Products of Combustion: May include, and are not limited to: oxides of carbon and hydrogen fluoride.

**Explosion Data:** 

Sensitivity to Mechanical Impact: Not available.

Sensitivity to Static Discharge: Not available.

Protection of Firefighters: Keep upwind of fire. Wear full fire fighting turn-out gear (full Bunker gear) and respiratory protection (SCBA).

# Section 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions: Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel.

Environmental Precautions: Keep out of drains, sewers, ditches, and waterways. Minimize use of water to prevent environmental contamination.

Methods for Containment: Contain and/or absorb spill with inert material (e.g. sand, vermiculite), then place in a suitable container. Do not flush to sewer or allow to enter waterways. Use appropriate Personal Protective Equipment (PPE).

Methods for Clean-Up: Soak into absorbent material. Spills of this material are a slipping hazard. Thoroughly wash the area with water after a spill or leak. Allow gas to dissipate harmlessly into the atmosphere.

Other Information: Not available.

# Section 7: HANDLING AND STORAGE

### Handling:

Avoid contact with skin and eyes. Do not swallow. Do not breathe gas/fumes/vapor/spray. Handle and open container with care. When using do not eat or drink. Wash hands before eating, drinking, or smoking.

### Storage:

Keep out of the reach of children. Keep container tightly closed. Store in a cool place. Keep away from food, drink and animal feedingstuffs.



Tile Lab Surfacegard Penetrating Sealer

# Section 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

# **Exposure Guidelines**

Ingredient

**Exposure Limits** OSHA-PEL

Diethylene glycol monobutyl ether

Not available.

ACGIH-TLV Not available.

Engineering Controls: Use ventilation adequate to keep exposures (airborne levels of dust,

fume, vapor, etc.) below recommended exposure limits.

Personal Protective Equipment:

Eye/Face Protection: Wear eye/face protection.

Hand Protection: Wear suitable gloves.

Skin and Body Protection: Wear suitable protective clothing.

Respiratory Protection: In case of insufficient ventilation, wear suitable respiratory equipment.

General Hygiene Considerations: Handle according to established industrial hygiene and

safety practices.

# Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:

Clear to slightly cloudy.

Color:

Colorless.

Odor:

Low odor.

**Odor Threshold:** 

Not available.

Physical State:

Liquid.

pH:

7.0 - 8.0

Viscosity:

Water thin.

Freezing Point:

~ 0 °C (~ 32 °F).

**Boiling Point:** 

~ 100°C (~ 212°F).

Flash Point:

Not available.

**Evaporation Rate:** 

Not available.

Lower Flammability Limit:

Not available.

**Upper Flammability Limit:** 

Not available.

Vapor Pressure:

Not available.

Vapor Density:

Not available.

Relative Density:

~ 1 g/mL.

Solubility in Water:

Miscible.

Coefficient of Water/Oil Distribution:

Not available.

**Auto-ignition Temperature:** 

Not available.

Percent Volatile, wt. %:

~ 95%

**VOC** content:

36 g/L.



Tile Lab Surfacegard Penetrating Sealer

# Section 10: STABILITY AND REACTIVITY

Stability: Stable under normal storage conditions.

Conditions of Reactivity: Heat. Incompatible materials.

Incompatible Materials: None known.

Hazardous Decomposition Products: May include, and are not limited to: oxides of carbon

and hydrogen fluoride.

Possibility of Hazardous Reactions: No dangerous reaction known under conditions of normal use.

# Section 11: TOXICOLOGY INFORMATION

# **EFFECTS OF ACUTE EXPOSURE**

Component Analysis

Ingredient

LD<sub>50</sub> (oral)

LC50

Diethylene glycol monobutyl ether

3384 mg/kg, rat

Not available.

Eye:

May cause eye irritation. Symptoms may include discomfort or pain, excess blinking

and tear production, with marked redness and swelling of the conjunctiva.

Skin:

May cause skin irritation. Symptoms may include redness, drying, and cracking

of the skin.

Ingestion:

May be harmful if swallowed. May cause stomach distress, nausea or vomiting.

Inhalation:

May cause respiratory tract irritation.

# EFFECTS OF CHRONIC EXPOSURE

Target Organs: Not available.

Chronic Effects: Not hazardous by WHMIS/OSHA criteria. Carcinogenicity: Not hazardous by WHMIS/OSHA criteria.

Ingredient

Chemical Listed as Carcinogen or Potential Carcinogen \*

Not listed.

Diethylene glycol monobutyl ether

\* See Section 15 for more information.

Mutagenicity: Not hazardous by WHMIS/OSHA criteria.

Reproductive Effects: Not hazardous by WHMIS/OSHA criteria.

Developmental Effects:

Teratogenicity: Not hazardous by WHMIS/OSHA criteria. Embryotoxicity: Not hazardous by WHMIS/OSHA criteria. Respiratory Sensitization: Not hazardous by WHMIS/OSHA criteria.

Skin Sensitization: Not hazardous by WHMIS/OSHA criteria.

Toxicologically Synergistic Materials: Not available.

# Section 12: ECOLOGICAL INFORMATION

Ecotoxicity: May cause long-term adverse effects in the aquatic environment.

Persistence / Degradability: Not available.



Tile Lab Surfacegard Penetrating Sealer

Bioaccumulation / Accumulation: Not available.

Mobility in Environment: Not available.

# Section 13: DISPOSAL CONSIDERATIONS

# **Disposal Instructions:**

This material must be disposed of in accordance with all local, state, provincial, and federal regulations.

# Section 14: TRANSPORTATION INFORMATION

**DOT Ground Classification** 

Not regulated

**TDG Ground Classification** 

Not regulated

IATA Classification

Not regulated

**IMDG Classification** 

Not regulated

# Section 15: REGULATORY INFORMATION

# **Federal Regulations**

**Canadian:** This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

US: MSDS prepared pursuant to the Hazard Communication Standard (CFR29 1910.1200).

**SARA Title III** 

Ingredient

Section 302 (EHS) TPQ (lbs.)

Section 304

CERCLA

Section

Diethylene glycol monobutyl ether

Not listed

EHS RQ (lbs.) Not listed.

RQ (lbs.) Not listed.

313 Not listed.

State Regulations

California Proposition 65:

This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.

# **Global Inventories**

Ingredient

Canada DSL/NDSL USA

Diethylene glycol monobutyl ether

DSL

TSCA Yes.

All ingredients are on DSL/NDSL and TSCA inventories or are exempt from listing.

**HMIS - Hazardous Materials Identification System** 

Health - 1

Flammability - 0

Physical Hazard - 0

PPE - B

NFPA - National Fire Protection Association:

Health - 1

Fire - 0

Reactivity - 0

Hazard Rating: 0 = minimal, 1 = slight, 2 = moderate, 3 = severe, 4 = extreme



Tile Lab Surfacegard Penetrating Sealer

WHMIS Classification(s):

Class D2B - Eye Irritant

# WHMIS Hazard Symbols:



# SOURCE AGENCY CARCINOGEN CLASSIFICATIONS:

OSHA (O) Occupational Safety and Health Administration.

ACGIH (G) American Conference of Governmental Industrial Hygienists.

A1 - Confirmed human carcinogen. A2 - Suspected human carcinogen.

A3 - Animal carcinogen.

A4 - Not classifiable as a human carcinogen. A5 - Not suspected as a human carcinogen.

IARC (I) International Agency for Research on Cancer.

1 - The agent (mixture) is carcinogenic to humans.

2A - The agent (mixture) is probably carcinogenic to humans; there is limited evidence of carcinogenicity in humans and sufficient evidence of carcinogenicity in experimental animals.

2B - The agent (mixture) is possibly carcinogenic to humans; there is limited evidence of carcinogenicity in humans in the absence of sufficient evidence of carcinogenicity in experimental animals.

3 - The agent (mixture, exposure circumstance) is not classifiable as to its carcinogenicity to humans.

4 - The agent (mixture, exposure circumstance) is probably not carcinogenic to humans.

NTP (N)

National Toxicology Program.

1 - Known to be carcinogens.

2 - Reasonably anticipated to be carcinogens.

# Section 16: OTHER INFORMATION

### Disclaimer:

The information contained in this document applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. It is the user's responsibility to satisfy oneself as to the suitability and completeness of this information for the user's own particular use.

Expiry Date: September 11, 2015

Version #: 2.1

Prepared by:

Nexreg Compliance Inc. Phone: (519) 488-5126

www.nexreg.com

ITEM: 5PA58 - Toilet Bowl Gasket

HU NUMBER: U234099560

MSDS C7857 DELIVERY: **6240072301** HU NUMB MATERIAL SAFTETY DATA SHEET (MSDS)
This MSDS should be attached or kept with the respective product with which it is associated.

MATERIAL SAFETY DATA SHEET - C7857	a or nopt with	Tano reopeouve prod	001150	associated.	
As ad Grainger Items			001160 001175		
		Ţ	001180 001182		
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MATERIAL CALETY DATA CHEET			001320 001330		
MATERIAL SAFETY DATA SHEET  PRODUCT NAME: NO-SEEP(R*) WAX GASKET	dit		001330-D 001360 001388		
MSDS NO.: 001115	10.7		001388 001390 001392		
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006260

### ----1. BASIC INFORMATION -----

MANUFACTURER: WILLIAM H. HARVEY COMPANY ADDRESS: 4334 SOUTH 67TH STREET CITY, ST ZIP: OMAHA, NE 68117-1019

EMERGENCY CONTACT: CHEMTREC (TRANSPORTATION EMERGENCY ONLY)
EMERGENCY TELEPHONE NUMBER: (800)424-9300

CONTACT: INFORMATION TELEPHONE NUMBER

INFORMATION TELEPHONE NUMBER: (800)228-9681

LAST UPDATE: 12/01/2009

EXPIRATION DATE:

CHEMICAL STATE: () LIQUID () GAS (X) SOLID

CHEMICAL TYPE: () PURE (X) MIXTURE

NF HEAL... 0 REACTIVITY 0 SPECIAL

FLAMMABILITY 1
REACTIVITY 0
PERS PROTE PERS. PROTECTION A

### ----2. INGREDIENTS -----

() TRADE SECRET

CAS NO. CHEMICAL NAME

% RANGE EHS NTP IARC

IA THIS PRODUCT IS DEFINED AS AN "ARTICLE" AND IS NOT CLASSIFIED AS HAZARDOUS IN ACCORDANCE WITH OSHA CFR 1910.1200

CHEMICAL NAME

SUB Z SARA 313 OSHA PEL ACGIH TLV OTHER LIMITS NI

THIS PRODUCT IS DEFINED AS AN "ARTICLE" AND IS NOT CLASSIFIED AS HAZARDOUS IN ACCORDANCE WITH OSHA CFR 1910.1200

### ----3. HAZARDOUS IDENTIFICATION -

NA

NA

HAZARD CATEGORY: () ACUTE () CHRONIC () FIRE () PRESSURE

HAZARDOUS IDENTIFICATION INFORMATION:

HAZARDS OVERVIEW: HAZARDS OVERVIEW:
THIS MATERIAL IS NOT HAZARDOUS UNDER NORMAL CONDITIONS OF USE. IT IS
SOLID AT ROOM TEMPERATURE EXHIBITING ELEVATED TEMPERATURE SOFTENING
CHATT CERISTICS. HOWEVER, ABOVE ITS SOFTENING POINT, THE MATERIAL
LIC SAND FLOWS MORE READILY AS THE TEMPERATURE INCREASES. AT ELEVATED
TEI, TURES WELL ABOVE NORMAL CONDITIONS OF USE AND WELL ABOVE ITS
SOFTENING POINT AND IN CONTACT WITH AIR, THE GENERATION OF HYDROCARBON
VAPORS INCLUDING POSSIBLE OXIDIZED PRODUCTS MAY BE EXPECTED.

----4. FIRST AID MEASURES -----

ROUTE(S) OF ENTRY:

EYE CONTACT:

NOT A LIKELY ROUTE OF ENTRY UNDER NORMAL CONDITIONS OF USE. EXPOSURE TO FUMES, VAPORS OR SMOKE FROM THERMALLY DEGRADED PRODUCT CAN CAUSE IRRITATION TO EYES.

INHALATION:
NOT A LIKELY ROUTE OF ENTRY UNDER NORMAL CONDITIONS OF USE. EXPOSURE TO
VAPORS, FUMES, OR SMOKE FROM MOLTEN MATERIAL HANDLED IN CONFINED AREAS CAN
PRODUCE IRRITATION OF RESPIRATORY TRACTS, AND POSSIBLE PHYSICAL DISCOMFORT

INGESTION: THIS MATERIAL IS ESSENTIALLY INERT AND NOT-TOXIC. REGARDLESS OF THIS THE MATERIAL SHOULD BE HANDLED WITH CARE AND NOT BE INGESTED OR PUT IN MOUTH.

NOT A LIKELY ROUTE OF ENTRY UNDER NORMAL CONDITIONS OF USE. MOLTEN MATERIAL CAN CAUSE SEVERE BURNS.

HEALTH HAZARDS (ACUTE AND CHRONIC):
APPEARS TO BE NO SIGNIFICANT RISK. PERMISSABLE CONCENTRATIONS IN AIR
5 MG/M3 FOR MINERAL OIL MIST (OSHA). INHALATION OF FUMES IN HIGH
CONCENTRATION MAY CAUSE DIZZINESS, HEADACHE, RESPIRATORY IRRITATION OR
UNCONSCIOUSNESS; REMOVE VICTIM TO FRESH AIR.

SIGNS AND SYMPTOMS:

MATERIAL IS NOT ACUTELY TOXIC BY INGESTION. HAS LAXATIVE PROPERTIES AND MAY RESULT IN ABDOMINAL CRAMPS AND DIARRHEA, CALL A PHYSICIAN.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: NI

EMERGENCY AND FIRST AID PROCEDURES:

EMERGENCY FIRST AID CALL: 1-303-623-5716 COLLECT

FOR MOLTEN MATERIAL ONLY: EYES AND SKIN - FLUSH IMMEDIATELY WITH COLD WATER AND CALL A PHYSICIAN. IF SWALLOWED CALL A PHYSICIAN.

OTHER HEALTH WARNINGS: NI

#### ----5. FIRE FIGHTING MEASURES -----

FLASH POINT: >360 DEG. F F.P. METHOD: ASTM D92

LOWER EXPLOSIVE LIMIT: .9% BY VOL. UPPER EXPLOSIVE LIMIT: 7.0% BY VOL.

FIRE EXTINGUISHING MEDIA: DRY CHEMICAL, FOAM, CO2, OR WATER FOG TO EXTINGUISH - DO NOT USE DIRECT WATER STREAM. USE WATER FOG TO COOL LIQUID WAX AFTER FIRE IS EXTINGUISHED.

SPECIAL FIRE FIGHTING PROCEDURES: WATER STREAM/SPRAY MAY NOT BE EFFECTIVE EXTINGUISHING AGENT.

FIRE FIGHTERS SHOULD USE SELF-CONTAINED BREATHING APPARATUS TO PROTECT AGAINST SMOKE INHALATION.

UNUSUAL FIRE AND EXPLOSION: NI

### -----6. ACCIDENTAL RELEASE MEASURES -

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: HANDLE AS A THERMOPLASTIC. WITH MOLTEN SPILLS, ALLOW THE MATERIAL TO SOLIDIFY AND COOL. KEEP MATERIAL OUT OF SEWERS AND WATERCOURSES BY DIKING OR IMPOUNDING. RECOVER AND PLACE INTO APPROPRIATE CONTAINERS FOR RECYCLING OR DISPOSAL, ACCORDING TO ALL FEDERAL, STATE AND LOCAL REQUIREMENTS.

### ----7. HANDLING AND STORAGE -----

PRECAUTIONS TO BE TAKEN: STORE AWAY FROM FLAME, HEAT (110 DEG. F MAXIMUM TO KEEP WAX RINGS FROM MELTING OR DEFORMING IN SHAPE) AND STRONG OXIDIZING AGENTS. DO NOT STACK CASES MORE THAN FIVE (5) CARTONS HIGH ON EACH PALLET.

OTHER PRECAUTIONS: KEEP OUT OF REACH OF CHILDREN AND PETS

### -----8. EXPOSURE CONTROLS/PERSONAL PROTECTION -----

VENTILATION REQUIREMENTS NORMAL ROOM VENTILATION IS SUITABLE UNDER NORMAL CONDITIONS OF USE.

PERSONAL PROTECTIVE EQUIPMENT: NO PERSONAL PROTECTIVE EQUIPMENT NECESSARY UNDER NORMAL CONDITIONS OF USE.

### ----9. PHYSICAL AND CHEMICAL PROPERTIES -----

**BOILING POINT: NA** 

MELTING POINT: APPROX. 150 DEG. F

EVAPORATION RATE (BUTYL ACETATE = 1): NA

VAPOR PRESSURE (MMHg.): NA

SPECIFIC GRAVITY (H2O = 1): 0.70500

VAPOR DENSITY (AIR = 1): NA

SOLUBILITY IN WATER: NEGLIGIBLE

APPEARANCE AND ODOR: LIGHT TO DARK BROWN SOFT SOLID/LIGHT PETROLEUM ODOR.

OTHER INFORMATION: NI

### -----10. STABILITY AND REACTIVITY -----

STABILITY: STABLE.

INCOMPATIBILITY (MATERIALS TO AVOID):

KEEP AWAY FROM FLAME, HEAT (200 F DEG MAX) AND STRONG OXIDIZING AGENTS.

DECOMPOSITION/BY PRODUCTS: UPON COMBUSTION, CARBON DIOXIDE, CARBON MONOXIDE AND OTHER PRODUCTS SUCH AS ALDEHYDES AND KETONES DEPENDING ON CONDITIONS OF OXIDATION.

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR.

#### -----11. TOXICOLOGICAL INFORMATION -----

ESS (LLY NON-TOXIC UNDER NORMAL CONDITIONS OF USE, WAX FUMES HAVE BEEN REPORTED TO BE IRRITATING TO THE RESPIRATORY TRACT, ESPECIALLY TO SENSITIZED PERSONS. MOLTEN PRODUCT COULD CAUSE THERMAL BURNS ON CONTACT WITH THE SKIN.

#### ----12. ECOLOGICAL INFORMATION -----

MATERIAL IS NOT CONSIDERED HARMFUL TO THE ENVIRONMENT. NEVERTHELESS, MATERIAL FROM SPILLS AND OTHER GENERATED WASTE MUST BE DISPOSED OF PROPERLY IN CONFORMANCE WITH ALL FEDERAL, STATE AND LOCAL LAWS.

#### -----13. DISPOSAL CONSIDERATIONS -----

THIS MATERIAL IS NOT A RCRA HAZARDOUS WASTE MATERIAL. DISPOSE OF ACCORDING TO APPLICABLE FEDERAL, STATE, AND LOCAL LAWS AND REGULATIONS.

#### ----14. TRANSPORT INFORMATION ----

TRANSPORTATION INFORMATION:
DOT PROPER SHIPPING NAME: NOT REGULATED
DOT LABEL: NONE REQUIRED
DOT NUMBER: N/A
UN NUMBER: N/A
IMCO CLASS: N/A DOT HAZARD CLASSIFICATION: N/A

#### ----15. REGULATORY INFORMATION -----

CERCLA: THIS MATERIAL IS NOT REPORTABLE UNDER 40 CFR PART 302.4.

OSHA: NON-HAZARDOUS AS DEFINED BY 29 CFR 19.1200.

RCRA: THIS MATERIAL IS NOT A RCRA HAZARDOUS WASTE.

SARA: NOT APPLICABLE TO SECTIONS 311 AND 312. SECTION 313: NONE.

THIS PRODUCT, OR ITS INGREDIENTS AS A MIXTURE, APPEARS ON THE TOXIC SUBSTANCES CONTROL ACT INVENTORY.

### ----16. OTHER INFORMATION --

AE ATIONS:
APPNOX. = APPROXIMATELY

< = LESS THAN

> = GREATER THAN

ACGIH = AMERICAN CONFERENCE OF GOVERNMENTAL INDUSTRIAL HYGIENISTS

AIHA = AMERICAN INDUSTRIAL HYGIENE ASSOCIATION

C = DEGREES CELCIUS

DEG = DEGREES

EPA = ENVIRONMENTAL PROTECTION AGENCY

F = DEGREES FARENHEIT

HMIS = HAZARDOUS MATERIALS INFORMATION SYSTEM

IARC = INTERNATIONAL AGENCY FOR RESEARCH ON CANCER

NA = NOT APPLICABLE

NDA = NO DATA AVAILABLE

NE = NOT ESTABLISHED

NFPA = NATIONAL FIRE PROTECTION ASSOCIATION

NI = NOT INDICATED

NI = NATIONAL INSTITUTE OF OCCUPATIONAL SAFETY AND HEALTH

NI = NOT INDICATED
NIOSH = NATIONAL INSTITUTE OF OCCUPATIONAL SAFETY AND HEALTH
NTP = NATIONAL TOXICOLOGY PROGRAM
OSHA = OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION

THE INFORMATION IN THIS MSDS WAS OBTAINED FROM SOURCES WHICH WE BELIEVE ARE RELIABLE. HOWEVER, THE INFORMATION IS PROVIDED BY THE WILLIAM H. HARVEY COMPANY WITHOUT ANY WARRANTY, EXPRESSED OR IMPLIED REGARDING ITS CORRECTNESS. SOME INFORMATION PRESENTED AND CONCLUSIONS DRAWN HEREIN ARE FROM SOURCES OTHER THAN DIRECT TEST DATA ON THE SUBSTANCE ITSELF. THIS MSDS WAS PREPARED AND IS TO BE USED ONLY FOR THIS PRODUCT, IF THE PRODUCT IS USED AS A COMPONENT IN ANOTHER PRODUCT, THIS MSDS INFORMATION MAY NOT BE APPLICABLE. USERS SHOULD MAKE THEIR OWN INVESTIGATIONS TO DETERMINE THE SUITABILITY OF THE INFORMATION OR PRODUCTS FOR THEIR PARTICULAR PURPOSE.

THE CONDITIONS OR METHODS OF HANDLING, STORAGE, USE, AND DISPOSAL OF THE PRODUCT ARE BEYOND OUR CONTROL AND MAY BE BEYOND OUR KNOWLEDGE. FOR THIS AND OTHER REASONS, THE WILLIAM H. HARVEY COMPANY DOES NOT ASSUME RESPONSIBILITY AND EXPRESSLY DISCLAIMS LIABILITY FOR LOSS, DAMAGE OR EXPENSE ARISING OUT OF OR IN ANY WAY CONNECTED WITH HANDLING, STORAGE, USE OR DISPOSAL OF THE PRODUCT.

\$ 200

# ITEM: 5PA58 - Toilet Bowl Gasket MSDS A9479

DELIVERY: 6240072301

HU NUMBER: U234099560

MATERIAL SAFTETY DATA SHEET (MSDS)

This MSDS should be attached or kept with the respective product with which it is associated.

ATERIAL SAFETY DATA SHE	EI - A9479		001175 001180 001182		
d Grainger Items			001195		
DS - MATERIAL SAFETY DAT	A SHEET		001220 001320		
JRSDAY, NOVEMBER 30, 200			001330 001330-D	ŕŷ	
DUCT NAME: NO-SEEP(R*)			001360 001388	ris i	
OS NO.: 001115			001390 001392		
RT NUMBERS COVERED:			001395 001395-SP	e 1.1.	
001 002 003			001397 001410		
004-24			001411 001412		
005-24 005-24D 005-SP			001425 001450		
006			001455 001465		
007 008 009			001475 001485		
010 010-24			001495 001505		
011 012		<b>(*)</b>	001515 001520		
013 014 015 016			001525 001530		
015			001535 001540		
)17 )18			001545 001550 001573		
019 020		1	001573 001575 001577		
)23 )24			001590		
125 125-N		1	001595 001598 001605		
225-N 226-N 227		i	001605 001610 001611		
)28 )29-N		-	001611 001625 001630		
)30 )32			001635 001641		
034			001641 001642 001643		
035-24 037			001644 001645	47	
			001645 001647 001648		
042 043 044			001649 001650	(3)	
045			001651 001659	٠,٠	
045-N 046			001660 001662		
047 048			001663		
149			004005		
052 060 075			004300-24 004300-SP 004301-24D		
085 090			004301-SP 004302 004303-SP		
095-N 101			004304-24D		
102 104			004305-24 004305-24D		
05 06			004305-SP 004306		
09-N 10			004308 004309		
11  13			004310 004310-24		
14 15-12		i	004311 004312		
115-24 115-24D			004318 004320		
16 16-12			004340 004345		
17 17-12			004350 004355		
118 118-12			004355-SP 004360		
119 120			004362 004370		
21 22			004371 004372		
23 25			004373 004374	47	
26 27 30			004375 004375-24		
29 30 31			004375-24D 004375-D		
31			004376 004376-24	4	
			004376-D 004377	_ 80	
37 38			004377-24 004377-D		
138 139 140			004378 004378-24 004378-D		
140 144 146			004405		
146 148 150			004410 004410-SP		
160			004411 004425		

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004495
004495-12
004495-SP
004496
004500
004510
004516-SP
004605
004603
006003
006007
006008
006028
006029
006030
006030-N
006031
006032-N
006036-N
006038-N
006050
006050-N
006051
006200
006230
006240
```

006260

### ----1. BASIC INFORMATION ----

MANUFACTURER: WILLIAM H. HARVEY COMPANY ADDRESS: 4334 SOUTH 67TH STREET CITY, ST ZIP: OMAHA, NE 68117-1019

EMERGENCY CONTACT: CHEMTREC EMERGENCY TELEPHONE NUMBER: (800) 424-9300

CONTACT: INFORMATION TELEPHONE NUMBER INFORMATION TELEPHONE NUMBER: (800) 228-9681

LAST UPDATE: 11/30/2006

**EXPIRATION DATE:** 

CHEMICAL STATE: () LIQUID () GAS (X) SOLID

CHEMICAL TYPE: () PURE (X) MIXTURE

NFPA: HEALTH O TY 0 RF

0 HEALTH 1 FLAMMABILITY 0 REACTIVITY A PERS. PROTECTION

### ----2. INGREDIENTS ----

() TRADE SECRET:

CAS NO. CHEMICAL NAME

% RANGE EHS NTP IARC SUB Z

NA THIS PRODUCT IS DEFINED AS AN "ARTICLE" AND IS NOT CLASSIFIED AS HAZARDOUS IN ACCORDANCE WITH OSHA CFR 1910.1200

OSHA ACGIH OTHER
CHEMICAL NAME SARA 313 PEL TLV LIMITS

THIS PRODUCT IS DEFINED AS AN "ARTICLE" AND IS NOT CLASSIFIED AS HAZARDOUS IN ACCORDANCE WITH OSHA CFR

### ----3. HAZARDOUS IDENTIFICATION ----

NA NA NI

HAZARD CATEGORY: () ACUTE () CHRONIC

) FIRE ) PRESSURE

HAZARDOUS IDENTIFICATION INFORMATION:
HAZARDS OVERVIEW:
THIS MATERIAL IS NOT HAZARDOUS UNDER NORMAL CONDITIONS OF USE. IT IS SOLID AT ROOM TEMPERATURE EXHIBITING ELEVATED TEMPERATURE SOFTENING CHARACTERISTICS. HOWEVER, ABOVE ITS SOFTENING POINT, THE MATERIAL LIQUEFIES AND FLOWS MORE READILY AS THE TEMPERATURE INCREASES. AT ELEVATED TEMPERATURES WILL ABOVE NORMAL CONDITIONS OF USE AND WELL ABOVE ITS SOFTENING POINT AND IN CONTACT WITH AIR, THE GENERATION OF HYDROCARBON VA NCLUDING POSSIBLE OXIDIZED PRODUCTS MAY BE EXPECTED.

### ----4. FIRST AID MEASURES -----

ROUTE(S) OF ENTRY:

EYE CONTACT: NOT A LIKELY ROUTE OF ENTRY UNDER NORMAL CONDITIONS OF USE, EXPOSURE TO FUMES, VAPORS OR SMOKE FROM THERMALLY DEGRADED PRODUCT CAN CAUSE IRRITATION

INHALATION:
NOT A LIKELY ROUTE OF ENTRY UNDER NORMAL CONDITIONS OF USE. EXPOSURE TO
VAPORS, FUMES, OR SMOKE FROM MOLTEN MATERIAL HANDLED IN CONFINED AREAS CAN
PRODUCE IRRITATION OF RESPIRATORY TRACTS, AND POSSIBLE PHYSICAL DISCOMFORT TO SENSITIVE INDIVIDUALS.

INGESTION: THIS MATERIAL IS ESSENTIALLY INERT AND NOT-TOXIC. REGARDLESS OF THIS THE MATERIAL SHOULD BE HANDLED WITH CARE AND NOT BE INGESTED OR PUT IN MOUTH.

NOT A LIKELY ROUTE OF ENTRY UNDER NORMAL CONDITIONS OF USE. MOLTEN MATERIAL CAN CAUSE SEVERE BURNS.

HEALTH HAZARDS (ACUTE AND CHRONIC):
APPEARS TO BE NO SIGNIFICANT RISK. PERMISSIBLE CONCENTRATIONS IN AIR 5
MG/M3 FOR MINERAL OIL MIST (OSHA). INHALATION OF FUMES IN HIGH
CONCENTRATION MAY CAUSE DIZZINESS, HEADACHE, RESPIRATORY IRRITATION OR
UNCONSCIOUSNESS; REMOVE VICTIM TO FRESH AIR.

SIGNS AND SYMPTOMS:

INGESTION: MATERIAL IS NOT ACUTELY TOXIC BY INGESTION. HAS LAXATIVE PROPERTIES AND MAY RESULT IN ABDOMINAL CRAMPS AND DIARRHEA, CALL A PHYSICIAN.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: NI

EMERGENCY AND FIRST AID PROCEDURES:

EMERGENCY FIRST AID CALL: 1-303-623-5716 COLLECT

FOR MOLTEN MATERIAL ONLY: EYES AND SKIN - FLUSH IMMEDIATELY WITH COLD WATER AND CALL A PHYSICIAN. IF SWALLOWED CALL A PHYSICIAN.

OTHER HEALTH WARNINGS: NI

#### ----5. FIRE FIGHTING MEASURES -----

FLASH POINT: > 360 DEG. F F.P. METHOD: ASTM D92

LOWER EXPLOSIVE LIMIT: .9% BY VOL UPPER EXPLOSIVE LIMIT: 7.0% BY VOL.

FIRE EXTINGUISHING MEDIA: DRY CHEMICAL, FOAM, CO2, OR WATER FOG TO EXTINGUISH - DO NOT USE DIRECT WATER STREAM. USE WATER FOG TO COOL LIQUID WAX AFTER FIRE IS EXTINGUISHED.

SPECIAL FIRE FIGHTING PROCEDURES: WATER STREAM/SPRAY MAY NOT BE EFFECTIVE EXTINGUISHING AGENT. FIRE FIGHTERS SHOULD USE SELF-CONTAINED BREATHING APPARATUS TO PROTECT AGAINST SMOKE INHALATION.

UNUSUAL FIRE AND EXPLOSION: NI

### -----6. ACCIDENTAL RELEASE MEASURES --

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: HANDLE AS A THERMOPLASTIC. WITH MOLTEN SPILLS, ALLOW THE MATERIAL TO SOLIDIFY AND COOL. KEEP MATERIAL OUT OF SEWERS AND WATERCOURSES BY DIKING OR IMPOUNDING. RECOVER AND PLACE INTO APPROPRIATE CONTAINERS FOR RECYCLING OR DISPOSAL, ACCORDING TO ALL FEDERAL, STATE AND LOCAL REQUIREMENTS.

### ----7. HANDLING AND STORAGE -----

PRECAUTIONS TO BE TAKEN: STORE AWAY FROM FLAME, HEAT (110 DEG. F MAXIMUM TO KEEP WAX RINGS FROM MELTING OR DEFORMING IN SHAPE) AND STRONG OXIDIZING AGENTS. DO NOT STACK CASES MORE THAN FIVE (5) CARTONS HIGH ON EACH PALLET.

OTHER PRECAUTIONS: KEEP OUT OF REACH OF CHILDREN AND PETS

# ----8. EXPOSURE CONTROLS/PERSONAL PROTECTION ---

VENTILATION REQUIREMENTS: NORMAL ROOM VENTILATION IS SUITABLE UNDER NORMAL CONDITIONS OF USE.

PERSONAL PROTECTIVE EQUIPMENT: NO PERSONAL PROTECTIVE EQUIPMENT NECESSARY UNDER NORMAL CONDITIONS OF USE.

### ----9. PHYSICAL AND CHEMICAL PROPERTIES -----

**BOILING POINT: NA** 

MELTING POINT: 150 DEG. F

EVAPORATION RATE (BUTYL ACETATE = 1): NA

VAPOR PRESSURE (MM HG.): NA

SPECIFIC GRAVITY (H2O = 1): 0.70500

VAPOR DENSITY (AIR = 1): NA

SOLUBILITY IN WATER: NEGLIGIBLE

APPEARANCE AND ODOR: LIGHT TO DARK BROWN SOFT SOLID/LIGHT PETROLEUM ODOR.

OTHER INFORMATION: NI

### -----10. STABILITY AND REACTIVITY -----

STABILITY: STABLE.

INCOMPATIBILITY (MATERIALS TO AVOID): KEEP AWAY FROM FLAME, HEAT (200 F DEG MAX) AND STRONG OXIDIZING AGENTS.

DECOMPOSITION/BY PRODUCTS: UPON COMBUSTION, CARBON DIOXIDE, CARBON MONOXIDE AND OTHER PRODUCTS SUCH AS

ALDEHYDES AND KETONES DEPENDING ON CONDITIONS OF OXIDATION. HAZARDOUS POLYMERIZATION: WILL NOT OCCUR.

#### ----11. TOXICOLOGICAL INFORMATION --

ESSENTIALLY NON-TOXIC UNDER NORMAL CONDITIONS OF USE, WAX FUMES HAVE BEEN REPORTED TO BE IRRITATING TO THE RESPIRATORY TRACT, ESPECIALLY TO SEY TELEPISONS. MOLTEN PRODUCT COULD GAUSE THERMAL BURNS ON CONTACT

#### ----12. ECOLOGICAL INFORMATION -----

MATERIAL IS NOT CONSIDERED HARMFUL TO THE ENVIRONMENT. NEVERTHELESS, MATERIAL FROM SPILLS AND OTHER GENERATED WASTE MUST BE DISPOSED OF PROPERLY IN CONFORMANCE WITH ALL FEDERAL, STATE AND LOCAL LAWS.

#### -----13. DISPOSAL CONSIDERATIONS -----

THIS MATERIAL IS NOT A RCRA HAZARDOUS WASTE MATERIAL. DISPOSE OF ACCORDING TO APPLICABLE FEDERAL, STATE, AND LOCAL LAWS AND REGULATIONS.

#### -----14. TRANSPORT INFORMATION -----

TRANSPORTATION INFORMATION:
DOT PROPER SHIPPING NAME: NOT REGULATED
DOT LABEL: NONE REQUIRED
DOT NUMBER: N/A
UN NUMBER: N/A
IMCO CLASS: N/A DOT HAZARD CLASSIFICATION: N/A

#### -----15. REGULATORY INFORMATION -----

CERCLA: THIS MATERIAL IS NOT REPORTABLE UNDER 40 CFR PART 302.4.

OSHA: NON-HAZARDOUS AS DEFINED BY 29 CFR 19.1200.

RCRA: THIS MATERIAL IS NOT A RCRA HAZARDOUS WASTE.

SARA: NOT APPLICABLE TO SECTIONS 311 AND 312, SECTION 313: NONE.

TSCA:
THIS PRODUCT, OR ITS INGREDIENTS AS A MIXTURE, APPEARS ON THE TOXIC SUBSTANCES CONTROL ACT INVENTORY.

#### -----16. OTHER INFORMATION -----

ABBREVIATIONS:

ABBREVIATIONS:
APPROX. = APPROXIMATELY

- LOT THAN

- TER THAN

AC AMERICAN CONFERENCE OF GOVERNMENTAL INDUSTRIAL HYGIENISTS
AIHA - AMERICAN INDUSTRIAL HYGIENE ASSOCIATION

C = DEGREES CELCIUS

DEG = DEGREES

EPA = ENVIRONMENTAL PROTECTION AGENCY

F = DEGREES AHRENHEIT

HMIS = HAZARDOUS MATERIALS INFORMATION SYSTEM
IARC = INTERNATIONAL AGENCY FOR RESEARCH ON CANCER

NA = NOT APPLICABLE
NDA = NO DATA AVAILABLE
NE = NOT ESTABLISHED

NIFA = NATIONAL FIRE PROTECTION ASSOCIATION
NI = NOT INDICATED

NIOSH = NATIONAL INSTITUTE OF OCCUPATIONAL SAFETY AND HEALTH

NTP= NATIONAL TOXICOLOGY PROGRAM
OSHA = OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION

THE INFORMATION IN THIS MS OF WAS OBTAINED FROM SOURCES WHICH WE REL

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# TREMSTOP ACRYLIC RUST RED 17L PAIL

Version 1.5

**REVISION DATE: 01/21/2008** 

Print Date 01/24/2008

# SECTION 1 - PRODUCT IDENTIFICATION / PREPARATION INFORMATION

**Product Information** 

Trade name

TREMSTOP ACRYLIC RUST RED 17L PAIL

Product code

901874 805

Supplier

Tremco Canada division 220 Wicksteed Avenue Toronto, ON M4H 1G7

Telephone

: (416) 421-3300 : (613) 996-6666

Emergency Phone:

....

Product use

: Sealant

**Preparation Information** 

Prepared by:

Sewnauth Raghunandan

Date: Telephone : 01/21/2008 : (416) 421-3300

# **SECTION 2 - HAZARDS IDENTIFICATION**

### **Emergency Overview**

Rust Red. Non-sag gunnable paste. May cause slight irritation to the respiratory system. Leave area to breathe fresh air. Avoid further overexposure. If symptoms persist, get medical attention.

## Acute Potential Health Effects/ Routes of Entry

Inhalation

May cause slight irritation to the respiratory system.

Eyes

Slightly irritating.

Ingestion

May cause irritation to the mouth, throat and stomach.

Skin

Irritant effect may be delayed.

# **Aggravated Medical Conditions**

Pre-existing eye, skin and respiratory disorders may be aggravated by exposure.

### **Chronic Health Effects**

Long term overexposure to propylene glycol caused liver abnormalities, kidney damage in laboratory animals. Repeated excessive ingestion may cause central nervous system effects. Fillers are encapsulated and not expected to be released from product under normal conditions of use.

# **SECTION 3: HAZARDOUS INGREDIENTS**

<b>Chemical Name</b>	CAS-No.	Weight % Range	
Amorphous silica	7631-86-9	1.0 - 5.0	
Propylene glycol	57-55-6	1.0 - 5.0	
Titanium dioxide	13463-67-7	0.1 - 1.0	
Chlorothalonil	1897-45-6	0.1 - 1.0	

The ingredients listed above are hazardous as defined in the controlled products regulation. (CPR).



# TREMSTOP ACRYLIC RUST RED 17L PAIL

Version 1.5

**REVISION DATE: 01/21/2008** 

Print Date 01/24/2008

### **SECTION 4 - FIRST AID MEASURES**

Get immediate medical attention for any significant overexposure.

Inhalation

: Leave area to breathe fresh air. Avoid further overexposure. If symptoms persist, get

medical attention.

Eye contact

: Flush with water for 15 minutes. If irritation persists, get medical attention.

Skin contact

Wash with water. If irritation, rash or other disorders develop, get medical attention

immediately.

Ingestion

Do not induce vomiting unless advised by a physician. Call nearest Poison Control

Center or Physician immediately.

# **SECTION 5: FIRE / EXPLOSION HAZARDS**

Flash point

: Not available.

Method

Not available.

Burning rate

Non-flammable solid

Lower explosion limit

Not available.

Upper explosion limit

Not available.

Autoignition temperature

Not available.

Extinguishing media

This product is not expected to burn under normal conditions of use. Use

that which is appropriate to the surroundings.

Hazardous combustion

products

Smoke, fumes.

Protective equipment for

firefighters

Not applicable. Product is not expected to burn.

Fire and explosion conditions

This product not expected to ignite under normal conditions of use.

# SECTION 6 - SPILLS / LEAKS / ACCIDENTAL RELEASE MEASURES

Use appropriate protective equipment. Avoid contact with material. Scrape up and transfer to appropriate container for disposal. Keep out of water courses.

# **SECTION 7 - HANDLING AND STORAGE**

Prevent inhalation of vapor, ingestion, and contact with skin eyes and clothing. Keep container closed when not in use. Precautions also apply to emptied containers. Do not use in confined or poorly ventilated areas. Store in sealed containers in a dry, ventilated warehouse location above freezing.

# SECTION 8 - PREVENTIVE MEASURES/EXPOSURE CONTROLS/PERSONAL PROTECTION

# Personal protection equipment

Respiratory protection

: Not required under normal conditions of use.

Hand protection

: Protect hands with impervious gloves.

RPM Canada

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901874 805



# TREMSTOP ACRYLIC RUST RED 17L PAIL

Version 1.5

**REVISION DATE: 01/21/2008** 

Print Date 01/24/2008

Eye protection

: Use safety glasses if eye contact is likely.

Protective measures

Use professional judgment in the selection, care, and use. Other equipment

not normally required.

**Engineering measures** 

General ventilation is sufficient. Use local exhaust when the general

ventilation is inadequate.

# **Exposure Limits**

Chemical Name	CAS Number	Regulation	Limit	Form
Amorphous silica	7631-86-9	Ontario TWA: Ontario TWA: ACGIH TWA: ACGIH TWA: Ontario TWA:	3 mg/m3 10 mg/m3 3 mg/m3 10 mg/m3 10 mg/m3	Respirable particles. Inhalable particulate. Respirable particles. Inhalable particles.
Titanium dioxide	13463-67-7	Ontario TWA: ACGIH TWA:	10 mg/m3 10 mg/m3	Total dust.

# SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Physical State

: Paste

Form

: Non-sag gunnable paste

Color

: Rust Red

Odor

: MildGlycolAcrylate

pН

: Not available.

Vapour pressure

: Not available.

Vapor density

: Heavier than air

Melting point/range

: <32 ℃, < 90 ℉

Freezing point

: Not available.

Boiling point/range

: Not available.

Water solubility

: Miscible

**Evaporation Rate:** 

. WIIOOIDIC

: Not available.

Specific Gravity

: 1.04

% Volatile Weight

: 35 %

# **SECTION 10 - REACTIVITY / STABILITY**

Substances to avoid

: Oxidizing agents.Strong acids.Strong bases.

# SECTION 11 - TOXICOLOGICAL INFORMATION

Amorphous silica, CAS-No.: 7631-86-9

Acute oral toxicity (LD-50 oral)

22,500 mg/kg (Rat) 22,500 mg/kg (Rat) 15,000 mg/kg (

Mouse ) 15,000 mg/kg (Mouse)

RPM Canada

3/5

901874 805



# TREMSTOP ACRYLIC RUST RED 17L PAIL

Version 1.5

**REVISION DATE: 01/21/2008** 

Print Date 01/24/2008

Propylene glycol, CAS-No.: 57-55-6

Acute oral toxicity (LD-50 oral)

30,000 mg/kg (Rat ) 18,000 mg/kg (Rabbit ) 19,000 mg/kg (Dog ) 23,900 - 31,800 mg/kg (Mouse ) 18,400 - 196,000

mg/kg (Guinea pig)

Chlorothalonil, CAS-No.: 1897-45-6

Acute oral toxicity (LD-50 oral)

10,000 mg/kg (Rat)

Acute dermal toxicity (LD-50 dermal)

10,000 mg/kg (Albino rat)

### **SECTION 12 - ECOLOGICAL INFORMATION**

No Data Available

# **SECTION 13 - WASTE DISPOSAL CONSIDERATIONS**

Disposal Method

Dispose as hazardous waste according to all local, state, federal and provincial

regulations.

# SECTION 14 - TRANSPORTATION / SHIPPING DATA

# TDG / DOT Shipping Description:

**NOT REGULATED** 

# **SECTION 15 - REGULATORY INFORMATION**

# North American Inventories:

All components are listed or exempt from the TSCA inventory.

This product or its components are listed on, or exempt from the Canadian Domestic Substances List.

Canadian Regulations:

WHMIS Classification

: D2A

This is a "controlled product" under the Canadian Workplace Hazardous Materials Information System (WHMIS).

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

Other Regulations:

Regulatory VOC (less water and

: 35 g/l

exempt solvent)



# TREMSTOP ACRYLIC RUST RED 17L PAIL

Version 1.5

**REVISION DATE: 01/21/2008** 

Print Date 01/24/2008

# **SECTION 16 - OTHER INFORMATION**

## **HMIS Rating:**

0
0

0 = Minimum

1 = Slight

2 = Moderate

3 = Serious

4 = Severe

### Further information:

For Industrial Use Only. Keep out of Reach of Children. The hazard information herein is offered solely for the consideration of the user, subject to their own investigation of compliance with applicable regulations, including the safe use of the product under every foreseeable condition.

# Prepared by: Sewnauth Raghunandan

### Legend

ACGIH - American Conference of Governmental Hygienists

DOT - Department of Transportation

DSL - Domestic Substance List

EPA - Environmental Protection Agency

HMIS - Hazardous Materials Information System

IARC - International Agency for Research on Cancer

MSHA - Mine Safety Health Administration

NDSL - Non-Domestic Substance List

NIOSH - National Institute for Occupational Safety and Health

NTP - National Toxicology Program

OSHA - Occupational Safety and Health Administration

PEL - Permissible Exposure Limit

RCRA - Resource Conservation and Recovery Act

STEL - Short Term Exposure Limit

TLV - Threshold Limit Value

TSCA - Toxic Substances Control Act

TWA - Time Weighted Average

V - Volume

VOC - Volatile Organic Compound

WHMIS - Workplace Hazardous Materials Information System



X Close this window

MSDS

Common Name: TITEBOND PANEL & FOAMBOARD ADHESIVE, 3461

Manufacturer: FRANKLIN INTERNATIONAL

MSDS Revision Date: 10/19/2010

Grainger Item Number(s): 3KRX1

Manufacturer Model Number(s):

### **MSDS Table of Contents**

Click the desired link below to jump directly to that section in the MSDS.

- 1. PRODUCT AND COMPANY IDENTIFICATION
- 2. HAZARDS IDENTIFICATION
- 3. COMPOSITION/INFORMATION ON INGREDIENTS
- 4. FIRST AID MEASURES
- 5. FIRE-FIGHTING MEASURES
- 6. ACCIDENTAL RELEASE MEASURES
- 7. HANDLING AND STORAGE
- 8. EXPOSURE CONTROLS/PERSONAL PROTECTION
- 9. PHYSICAL AND CHEMICAL PROPERTIES
- 10. STABILITY AND REACTIVITY
- 11. TOXICOLOGICAL INFORMATION
- 12. ECOLOGICAL INFORMATION
- 13. DISPOSAL CONSIDERATIONS
- 14. TRANSPORT INFORMATION
- 15. REGULATORY INFORMATION
- 16. OTHER INFORMATION

FRANKLIN INTERNATIONAL

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: TITEBOND PANEL & FOAMBOARD ADHESIVE

# 1. PRODUCT AND COMPANY IDENTIFICATION

A top

CAS #: MIXTURE

ADDRESS: FRANKLIN INTERNATIONAL 2020 BRUCK STREET COLUMBUS OH 43207

CONTACT PERSON: FRANKLIN TECHNICAL SERVICES

TELEPHONE: (800) 877-4583

EMERGENCY PHONE:

FRANKLIN SECURITY: (614) 445-1300

PROLONGED OR REPEATED CONTACT CAN DEFAT THE SKIN AND LEAD TO IRRITATION, CRACKING AND/OR DERMATITIS.

CARCINOGENICITY: NO KNOWN SIGNIFICANT EFFECTS OR CRITICAL HAZARDS.

MUTAGENICITY: NO KNOWN SIGNIFICANT EFFECTS OR CRITICAL HAZARDS.

TERATOGENICITY: NO KNOWN SIGNIFICANT EFFECTS OR CRITICAL HAZARDS.

DEVELOPMENTAL EFFECTS: NO KNOWN SIGNIFICANT EFFECTS OR CRITICAL HAZARDS.

FERTILITY EFFECTS: NO KNOWN SIGNIFICANT EFFECTS OR CRITICAL HAZARDS.

#### TARGET ORGANS:

CONTAINS MATERIAL WHICH MAY CAUSE DAMAGE TO THE FOLLOWING ORGANS: PERIPHERAL NERVOUS SYSTEM, UPPER RESPIRATORY TRACT, SKIN, CENTRAL NERVOUS SYSTEM (CNS), EYE, LENS OR CORNEA.

OVER-EXPOSURE SIGNS/SYMPTOMS:

#### INHALATION:

HIGH VAPOR CONCENTRATIONS CAN CAUSE HEADACHES, DIZZINESS, DROWSINESS AND NAUSEA AND MAY LEAD TO UNCONSCIOUSNESS.

ADVERSE SYMPTOMS MAY INCLUDE THE FOLLOWING: RESPIRATORY TRACT IRRITATION COUGHING

INGESTION: NO SPECIFIC DATA.

### SKIN:

ADVERSE SYMPTOMS MAY INCLUDE THE FOLLOWING:

IRRITATION
REDNESS
DRYNESS
CRACKING

EYES:

ADVERSE SYMPTOMS MAY INCLUDE THE FOLLOWING:

PAIN OR IRRITATION WATERING

REDNESS

MEDICAL CONDITIONS AGGRAVATED BY OVER-EXPOSURE: NONE KNOWN.

SEE TOXICOLOGICAL INFORMATION (SECTION 11)

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

A top

UNITED STATES:

NAME CAS NUMBER

N-HEXANE 110-54-3 25 - 50

ISOPROPANOL 67-63-0 1 - 5

CANADA:

NAME CAS NUMBER %

REFERENCE NUMBER: 3105

PRODUCT CODE: 3461

DATE OF REVISION: 10/19/2010.

PRINT DATE: 12/16/2010.

CHEMTREC (24 HOUR): (800) 424-9300

CHEMTREC INTERNATIONAL: (703) 527-3887

CHEMICAL FAMILY: ADHESIVE.

PRODUCT USE: ADHESIVE

PRODUCT TYPE: SOLVENT BASED

### 2. HAZARDS IDENTIFICATION

A top

PHYSICAL STATE: LIQUID. [PASTE.]

ODOR: ALCOHOL-LIKE.

OSHA/HCS STATUS:

THIS MATERIAL IS CONSIDERED HAZARDOUS BY THE OSHA HAZARD COMMUNICATION STANDARD (29 CFR 1910.1200).

EMERGENCY OVERVIEW:

DANGER!

EXTREMELY FLAMMABLE LIQUID AND VAPOR. FLAMMABLE. VAPOR MAY CAUSE FLASH FIRE. HARMFUL IF INHALED. CAUSES EYE AND SKIN IRRITATION. MAY BE HARMFUL IF SWALLOWED. MAY CAUSE RESPIRATORY TRACT IRRITATION. PROLONGED OR REPEATED CONTACT MAY DRY SKIN AND CAUSE IRRITATION.

EXTREMELY FLAMMABLE LIQUID. HARMFUL BY INHALATION. MAY BE HARMFUL IF SWALLOWED. SEVERELY IRRITATING TO EYES. IRRITATING TO SKIN. MODERATELY IRRITATING TO THE RESPIRATORY SYSTEM. DEFATTING TO THE SKIN. KEEP AWAY FROM HEAT, SPARKS AND FLAME. DO NOT BREATHE VAPOR OR MIST. DO NOT INGEST. DO NOT GET IN EYES. AVOID CONTACT WITH SKIN AND CLOTHING. USE ONLY WITH ADEQUATE VENTILATION. KEEP CONTAINER TIGHTLY CLOSED AND SEALED UNTIL READY FOR USE. WASH THOROUGHLY AFTER HANDLING.

ROUTES OF ENTRY: DERMAL CONTACT. EYE CONTACT. INHALATION. INGESTION.

POTENTIAL ACUTE HEALTH EFFECTS:

INHALATION:

TOXIC BY INHALATION. MODERATELY IRRITATING TO THE RESPIRATORY SYSTEM.

INGESTION: HARMFUL IF SWALLOWED.

SKIN: IRRITATING TO SKIN.

EYES: SEVERELY IRRITATING TO EYES. RISK OF SERIOUS DAMAGE TO EYES.

POTENTIAL CHRONIC HEALTH EFFECTS:

CHRONIC FFFFCTS.

### Grainger MSDS Lookup

N-HEXANE

110-54-3

25 - 50

ISOPROPANOL

67-63-0

1 - 5

MEXICO:

NAME	CAS NUMBER	R UN NUMBER	%	IDLH	CLASSIFICATION
					2000000 0000000 000000 000000000000000

H F R SPECIAL

N-HEXANE 110-54-3 UN1993 25 - 50 1100 PPM 0 3

ISOPROPANOL 67-63-0 UN1993 1 - 5 2000 PPM 0 3 0

THERE ARE NO ADDITIONAL INGREDIENTS PRESENT WHICH, WITHIN THE CURRENT KNOWLEDGE OF THE SUPPLIER AND IN THE CONCENTRATIONS APPLICABLE, ARE CLASSIFIED AS HAZARDOUS TO HEALTH OR THE ENVIRONMENT AND HENCE REQUIRE REPORTING IN THIS SECTION.

#### 4. FIRST AID MEASURES



#### EYE CONTACT:

CHECK FOR AND REMOVE ANY CONTACT LENSES. IMMEDIATELY FLUSH EYES WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES, OCCASIONALLY LIFTING THE UPPER AND LOWER EYELIDS. GET MEDICAL ATTENTION IMMEDIATELY.

#### SKIN CONTACT:

IN CASE OF CONTACT, IMMEDIATELY FLUSH SKIN WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES WHILE REMOVING CONTAMINATED CLOTHING AND SHOES. WASH CLOTHING BEFORE REUSE. CLEAN SHOES THOROUGHLY BEFORE REUSE. GET MEDICAL ATTENTION IMMEDIATELY.

### INHALATION:

MOVE EXPOSED PERSON TO FRESH AIR. IF NOT BREATHING, IF BREATHING IS IRREGULAR OR IF RESPIRATORY ARREST OCCURS, PROVIDE ARTIFICIAL RESPIRATION

OR OXYGEN BY TRAINED PERSONNEL. LOOSEN TIGHT CLOTHING SUCH AS A COLLAR, TIE, BELT OR WAISTBAND. GET MEDICAL ATTENTION IMMEDIATELY.

### INGESTION:

WASH OUT MOUTH WITH WATER. DO NOT INDUCE VOMITING UNLESS DIRECTED TO DO SO BY MEDICAL PERSONNEL. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. GET MEDICAL ATTENTION IMMEDIATELY.

### PROTECTION OF FIRST-AIDERS:

NO ACTION SHALL BE TAKEN INVOLVING ANY PERSONAL RISK OR WITHOUT SUITABLE TRAINING. IF IT IS SUSPECTED THAT FUMES ARE STILL PRESENT, THE RESCUER SHOULD WEAR AN APPROPRIATE MASK OR SELF-CONTAINED BREATHING APPARATUS. IT MAY BE DANGEROUS TO THE PERSON PROVIDING AID TO GIVE MOUTH-TO-MOUTH RESUSCITATION. WASH CONTAMINATED CLOTHING THOROUGHLY WITH WATER BEFORE REMOVING IT, OR WEAR GLOVES.

## NOTES TO PHYSICIAN:

NO SPECIFIC TREATMENT. TREAT SYMPTOMATICALLY. CONTACT POISON TREATMENT SPECIALIST IMMEDIATELY IF LARGE QUANTITIES HAVE BEEN INGESTED OR INHALED.

# 5. FIRE-FIGHTING MEASURES

A top

FLAMMABILITY OF THE PRODUCT:

EXTREMELY FLAMMABLE LIQUID. IN A FIRE OR IF HEATED, A PRESSURE INCREASE WILL OCCUR AND THE CONTAINER MAY BURST, WITH THE RISK OF A SUBSEQUENT

EXPLOSION.

EXTINGUISHING MEDIA:

SUITABLE: USE DRY CHEMICAL, CO2, WATER SPRAY (FOG) OR FOAM. NOT SUITABLE: DO NOT USE WATER JET.

SPECIAL EXPOSURE HAZARDS:

PROMPTLY ISOLATE THE SCENE BY REMOVING ALL PERSONS FROM THE VICINITY OF THE INCIDENT IF THERE IS A FIRE. NO ACTION SHALL BE TAKEN INVOLVING ANY PERSONAL RISK OR WITHOUT SUITABLE TRAINING. MOVE CONTAINERS FROM FIRE AREA IF THIS CAN BE DONE WITHOUT RISK. USE WATER SPRAY TO KEEP FIRE-EXPOSED CONTAINERS COOL.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS:
FIRE-FIGHTERS SHOULD WEAR APPROPRIATE PROTECTIVE EQUIPMENT AND
SELF-CONTAINED BREATHING APPARATUS (SCBA) WITH A FULL FACE-PIECE OPERATED
IN POSITIVE PRESSURE MODE.

### 6. ACCIDENTAL RELEASE MEASURES



PERSONAL PRECAUTIONS:

NO ACTION SHALL BE TAKEN INVOLVING ANY PERSONAL RISK OR WITHOUT SUITABLE TRAINING. EVACUATE SURROUNDING AREAS. KEEP UNNECESSARY AND UNPROTECTED PERSONNEL FROM ENTERING. DO NOT TOUCH OR WALK THROUGH SPILLED MATERIAL. SHUT OFF ALL IGNITION SOURCES. NO FLARES, SMOKING OR FLAMES IN HAZARD AREA. DO NOT BREATHE VAPOR OR MIST. PROVIDE ADEQUATE VENTILATION. WEAR APPROPRIATE RESPIRATOR WHEN VENTILATION IS INADEQUATE. PUT ON APPROPRIATE

PERSONAL PROTECTIVE EQUIPMENT (SEE SECTION 8).

### ENVIRONMENTAL PRECAUTIONS:

AVOID DISPERSAL OF SPILLED MATERIAL AND RUNOFF AND CONTACT WITH SOIL, WATERWAYS, DRAINS AND SEWERS. INFORM THE RELEVANT AUTHORITIES IF THE PRODUCT HAS CAUSED ENVIRONMENTAL POLLUTION (SEWERS, WATERWAYS, SOIL OR AIR).

### SMALL SPILL:

STOP LEAK IF WITHOUT RISK. MOVE CONTAINERS FROM SPILL AREA. USE SPARK-PROOF TOOLS AND EXPLOSION-PROOF EQUIPMENT. DISPOSE OF VIA A LICENSED WASTE DISPOSAL CONTRACTOR. ABSORB WITH AN INERT MATERIAL.

### LARGE SPILL:

STOP LEAK IF WITHOUT RISK. MOVE CONTAINERS FROM SPILL AREA. APPROACH RELEASE FROM UPWIND. PREVENT ENTRY INTO SEWERS, WATER COURSES, BASEMENTS OR CONFINED AREAS. CONTAIN AND COLLECT SPILLAGE WITH NON-COMBUSTIBLE, ABSORBENT MATERIAL E.G. SAND, EARTH, VERMICULITE OR DIATOMACEOUS EARTH AND PLACE IN CONTAINER FOR DISPOSAL ACCORDING TO LOCAL REGULATIONS (SEE SECTION 13). USE SPARK-PROOF TOOLS AND EXPLOSION-PROOF EQUIPMENT. DISPOSE OF VIA A LICENSED WASTE DISPOSAL CONTRACTOR. CONTAMINATED ABSORBENT MATERIAL MAY POSE THE SAME HAZARD AS THE SPILLED PRODUCT.

### NOTE:

SEE SECTION 1 FOR EMERGENCY CONTACT INFORMATION AND SECTION 13 FOR WASTE DISPOSAL.

# 7. HANDLING AND STORAGE



HANDLING:

PUT ON APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT (SEE SECTION 8). EATING,
DRINKING AND SMOKING SHOULD BE PROHIBITED IN AREAS WHERE THIS MATERIAL IS

HANDLED, STORED AND PROCESSED. WORKERS SHOULD WASH HANDS AND FACE BEFORE EATING, DRINKING AND SMOKING. DO NOT GET IN EYES OR ON SKIN OR CLOTHING. DO NOT BREATHE VAPOR OR MIST. DO NOT INGEST. USE ONLY WITH ADEQUATE VENTILATION. WEAR APPROPRIATE RESPIRATOR WHEN VENTILATION IS INADEQUATE. DO NOT ENTER STORAGE AREAS AND CONFINED SPACES UNLESS ADEQUATELY VENTILATED. KEEP IN THE ORIGINAL CONTAINER OR AN APPROVED ALTERNATIVE MADE FROM A COMPATIBLE MATERIAL, KEPT TIGHTLY CLOSED WHEN NOT IN USE. STORE AND USE AWAY FROM HEAT, SPARKS, OPEN FLAME OR ANY OTHER IGNITION SOURCE. USE EXPLOSION-PROOF ELECTRICAL (VENTILATING, LIGHTING AND MATERIAL HANDLING) EQUIPMENT. USE NON-SPARKING TOOLS. TAKE PRECAUTIONARY MEASURES AGAINST ELECTROSTATIC DISCHARGES. EMPTY CONTAINERS RETAIN PRODUCT RESIDUE AND CAN BE HAZARDOUS. DO NOT REUSE CONTAINER.

#### STORAGE:

STORE IN ACCORDANCE WITH LOCAL REGULATIONS. STORE IN A SEGREGATED AND APPROVED AREA. STORE IN ORIGINAL CONTAINER PROTECTED FROM DIRECT SUNLIGHT IN A DRY, COOL AND WELL-VENTILATED AREA, AWAY FROM INCOMPATIBLE MATERIALS (SEE SECTION 10) AND FOOD AND DRINK. ELIMINATE ALL IGNITION SOURCES. SEPARATE FROM OXIDIZING MATERIALS. KEEP CONTAINER TIGHTLY CLOSED AND SEALED UNTIL READY FOR USE. CONTAINERS THAT HAVE BEEN OPENED MUST BE CAREFULLY RESEALED AND KEPT UPRIGHT TO PREVENT LEAKAGE. DO NOT STORE IN UNLABELED CONTAINERS. USE APPROPRIATE CONTAINMENT TO AVOID ENVIRONMENTAL

CONTAMINATION.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

A top

UNITED STATES:

INGREDIENT

EXPOSURE LIMITS

N-HEXANE

OSHA PEL 1989 (UNITED STATES, 3/1989).

TWA: 50 PPM 8 HOUR(S).
TWA: 180 MG/M3 8 HOUR(S).

NIOSH REL (UNITED STATES, 6/2009).

TWA: 50 PPM 10 HOUR(S).
TWA: 180 MG/M3 10 HOUR(S).

ACGIH TLV (UNITED STATES, 2/2010). ABSORBED THROUGH SKIN.

TWA: 50 PPM 8 HOUR(S).

OSHA PEL (UNITED STATES, 6/2010).

TWA: 500 PPM 8 HOUR(S).
TWA: 1800 MG/M3 8 HOUR(S).

ISOPROPANOL

ACGIH TLV (UNITED STATES, 2/2010).

TWA: 200 PPM 8 HOUR(S). STEL: 400 PPM 15 MINUTE(S).

OSHA PEL 1989 (UNITED STATES, 3/1989).

TWA: 400 PPM 8 HOUR(S).
TWA: 980 MG/M3 8 HOUR(S).

STEL: 500 PPM 15 MINUTE(S). STEL: 1225 MG/M3 15 MINUTE(S).

NIOSH REL (UNITED STATES, 6/2009).

TWA: 400 PPM 10 HOUR(S).
TWA: 980 MG/M3 10 HOUR(S).

CORT. EAA DOM 15 MINITER /CI

SIEL: 300 PPM 13 MINUTE(S).
STEL: 1225 MG/M3 15 MINUTE(S).

OSHA PEL (UNITED STATES, 6/2010).

TWA: 400 PPM 8 HOUR(S).
TWA: 980 MG/M3 8 HOUR(S).

### CANADA:

### OCCUPATIONAL EXPOSURE LIMITS:

INGREDIENT	LIST NAME		OURS) 3 OTHER		(15 MINS) MG/M3 OTHER
N-HEXANE	US ACGIH 2/2010 AB 4/2009	50 50 176			
	BC 10/2009 ON 7/2010 QC 6/2008	20 50 50 176			
ISOPROPANOL	US ACGIH 2/2010 AB 4/2009 BC 10/2009 ON 7/2010	200 200 492 200 200		400 400 400 400	984
	QC 6/2008	400 983		500	1230
INGREDIENT	LIST NAME	CEILII PPM MG/M	NG 3 OTHER	NOT	ATIONS
N-HEXANE	US ACGIH 2/2010 AB 4/2009 BC 10/2009 ON 7/2010 QC 6/2008			[1] [1] [1] [1]	
ISOPROPANOL	US ACGIH 2/2010 AB 4/2009 BC 10/2009 ON 7/2010 QC 6/2008				

### [1] ABSORBED THROUGH SKIN.

### MEXICO:

INGREDIENT

N-HEXANE

NOM-010-STPS (MEXICO, 9/2000).

LMPE-PPT: 50 PPM 8 HOUR(S).

LMPE-PPT: 176 MG/M3 8 HOUR(S).

ISOPROPANOL

NOM-010-STPS (MEXICO, 9/2000).

LMPE-PPT: 400 PPM 8 HOUR(S).

LMPE-PPT: 980 MG/M3 8 HOUR(S).

LMPE-PT: 1225 MG/M3 15 MINUTE(S).

EXPOSURE LIMITS

CONSULT LOCAL AUTHORITIES FOR ACCEPTABLE EXPOSURE LIMITS.

### RECOMMENDED MONITORING PROCEDURES:

IF THIS PRODUCT CONTAINS INGREDIENTS WITH EXPOSURE LIMITS, PERSONAL, WORKPLACE ATMOSPHERE OR BIOLOGICAL MONITORING MAY BE REQUIRED TO DETERMINE THE EFFECTIVENESS OF THE VENTILATION OR OTHER CONTROL MEASURES AND/OR THE

LMPE-CT: 500 PPM 15 MINUTE(S).

NECESSITY TO USE RESPIRATORY PROTECTIVE EQUIPMENT.

#### ENGINEERING MEASURES:

USE ONLY WITH ADEQUATE VENTILATION. USE PROCESS ENCLOSURES, LOCAL EXHAUST VENTILATION OR OTHER ENGINEERING CONTROLS TO KEEP WORKER EXPOSURE TO AIRBORNE CONTAMINANTS BELOW ANY RECOMMENDED OR STATUTORY LIMITS. THE ENGINEERING CONTROLS ALSO NEED TO KEEP GAS, VAPOR OR DUST CONCENTRATIONS BELOW ANY LOWER EXPLOSIVE LIMITS. USE EXPLOSION-PROOF VENTILATION EQUIPMENT.

#### HYGIENE MEASURES:

WASH HANDS, FOREARMS AND FACE THOROUGHLY AFTER HANDLING CHEMICAL PRODUCTS, BEFORE EATING, SMOKING AND USING THE LAVATORY AND AT THE END OF THE WORKING PERIOD. APPROPRIATE TECHNIQUES SHOULD BE USED TO REMOVE POTENTIALLY CONTAMINATED CLOTHING. WASH CONTAMINATED CLOTHING BEFORE REUSING. ENSURE THAT EYEWASH STATIONS AND SAFETY SHOWERS ARE CLOSE TO THE WORKSTATION LOCATION.

#### PERSONAL PROTECTION:

#### RESPIRATORY:

USE A PROPERLY FITTED, AIR-PURIFYING OR AIR-FED RESPIRATOR COMPLYING WITH AN APPROVED STANDARD IF A RISK ASSESSMENT INDICATES THIS IS NECESSARY. RESPIRATOR SELECTION MUST BE BASED ON KNOWN OR ANTICIPATED EXPOSURE LEVELS, THE HAZARDS OF THE PRODUCT AND THE SAFE WORKING LIMITS OF THE SELECTED RESPIRATOR.

#### HANDS:

CHEMICAL-RESISTANT, IMPERVIOUS GLOVES COMPLYING WITH AN APPROVED STANDARD SHOULD BE WORN AT ALL TIMES WHEN HANDLING CHEMICAL PRODUCTS IF A RISK ASSESSMENT INDICATES THIS IS NECESSARY.

### EYES:

SAFETY EYEWEAR COMPLYING WITH AN APPROVED STANDARD SHOULD BE USED WHEN A RISK ASSESSMENT INDICATES THIS IS NECESSARY TO AVOID EXPOSURE TO LIQUID SPLASHES, MISTS OR DUSTS.

## SKIN:

PERSONAL PROTECTIVE EQUIPMENT FOR THE BODY SHOULD BE SELECTED BASED ON THE TASK BEING PERFORMED AND THE RISKS INVOLVED AND SHOULD BE APPROVED BY A SPECIALIST BEFORE HANDLING THIS PRODUCT.

### ENVIRONMENTAL EXPOSURE CONTROLS:

EMISSIONS FROM VENTILATION OR WORK PROCESS EQUIPMENT SHOULD BE CHECKED TO ENSURE THEY COMPLY WITH THE REQUIREMENTS OF ENVIRONMENTAL PROTECTION LEGISLATION.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

A top

PHYSICAL STATE: LIQUID. [PASTE.]

### FLASH POINT:

CLOSED CUP: <-17.778 DEG. C (<-0.0004 DEG. F) [SETAFLASH.]

### FLAMMABLE LIMITS:

LOWER: 1.2% UPPER: 7.5%

COLOR: BEIGE.

ODOR: ALCOHOL-LIKE.

BOILING/CONDENSATION POINT: 61.667 DEG. C (143 DEG. F)

RELATIVE DENSITY: 1.19

VOLATILITY: 25.9% (W/W)

VOC (LESS WATER, LESS EXEMPT SOLVENTS): 310 G/L

SOLUBILITY:

INSOLUBLE IN THE FOLLOWING MATERIALS: COLD WATER AND HOT WATER.

### 10. STABILITY AND REACTIVITY

A top

CHEMICAL STABILITY: THE PRODUCT IS STABLE.

POSSIBILITY OF HAZARDOUS REACTIONS:

UNDER NORMAL CONDITIONS OF STORAGE AND USE, HAZARDOUS REACTIONS WILL NOT OCCUR.

HAZARDOUS POLYMERIZATION:

UNDER NORMAL CONDITIONS OF STORAGE AND USE, HAZARDOUS POLYMERIZATION WILL NOT OCCUR.

CONDITIONS TO AVOID:

AVOID ALL POSSIBLE SOURCES OF IGNITION (SPARK OR FLAME). DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND OR EXPOSE CONTAINERS TO HEAT OR SOURCES OF IGNITION.

MATERIALS TO AVOID:

HIGHLY REACTIVE OR INCOMPATIBLE WITH THE FOLLOWING MATERIALS: OXIDIZING MATERIALS

INCOMPATIBILITY:

REACTIVE OR INCOMPATIBLE WITH THE FOLLOWING MATERIALS: OXIDIZING MATERIALS, ACIDS AND ALKALIS.

HAZARDOUS DECOMPOSITION PRODUCTS:

UNDER NORMAL CONDITIONS OF STORAGE AND USE, HAZARDOUS DECOMPOSITION PRODUCTS SHOULD NOT BE PRODUCED.

CONDITIONS OF REACTIVITY:

HIGHLY FLAMMABLE IN THE PRESENCE OF THE FOLLOWING MATERIALS OR CONDITIONS: OPEN FLAMES, SPARKS AND STATIC DISCHARGE.

### 11. TOXICOLOGICAL INFORMATION

A top

UNITED STATES:

ACUTE TOXICITY:

PRODUCT/INGREDIENT	RESULT	SPECIES	DOSE	EXPOSURE
NAME				

N-HEXANE	LD50	ORAL	RAT	29700 MG/KG
	LD50	ORAL	RAT	15840 MG/KG
	LDLO	INTRAPERITONEAL	RAT	9100 MG/KG
	TDLO	ORAL	RAT	20000 MG/KG

# Grainger MSDS Lookup

	LC50 VAPOF	INHALATION R	RAT	627000 MG/M3	3	MINUTES
	LC50	INHALATION GAS.	RAT	48000 PPM	4	HOURS
ISOPROPANOL	LD50	DERMAL	RABBIT	12800 MG/KG		
	LD50	INTRAPERITONEAL	RAT	2735 MG/KG		
	LD50	INTRAVENOUS	RAT	1088 MG/KG		
	LD50	ORAL	RAT	5045 MG/KG		
	LD50	ORAL	RAT	5000 MG/KG		
	TDLO	INTRAPERITONEAL	RAT	800 MG/KG		
	LC50	INHALATION GAS.	RAT	16000 PPM	8	HOURS

CHRONIC TOXICITY: NO KNOWN SIGNIFICANT EFFECTS OR CRITICAL HAZARDS.

IRRITATION/CORROSION:

CONCLUSION/SUMMARY:

### SKIN:

PROLONGED OR REPEATED CONTACT CAN DEFAT THE SKIN AND LEAD TO IRRITATION, CRACKING AND/OR DERMATITIS.

EYES: SEVERELY IRRITATING TO EYES.

### RESPIRATORY:

HIGH VAPOR CONCENTRATIONS CAN CAUSE HEADACHES, DIZZINESS, DROWSINESS AND NAUSEA AND MAY LEAD TO UNCONSCIOUSNESS.

SENSITIZER: NO KNOWN SIGNIFICANT EFFECTS OR CRITICAL HAZARDS.

### CARCINOGENICITY:

## CLASSIFICATION:

PRODUCT/INGREDIENT NAME ACGIH IARC EPA NIOSH NTP OSHA

ISOPROPANOL A4 3

MUTAGENICITY: NO KNOWN SIGNIFICANT EFFECTS OR CRITICAL HAZARDS.

TERATOGENICITY: NO KNOWN SIGNIFICANT EFFECTS OR CRITICAL HAZARDS.

REPRODUCTIVE TOXICITY: NO KNOWN SIGNIFICANT EFFECTS OR CRITICAL HAZARDS.

### CANADA:

# ACUTE TOXICITY:

PRODUCT/INGREDIENT NAME	RESULT	SPECIES	DOSE	EXPOSURE
N-HEXANE	LD50 ORAL LD50 ORAL	RAT RAT	29700 MG/KG 15840 MG/KG	
	LDLO INTRAPERITONEAL TDLO ORAL LC50 INHALATION VAPOR	RAT RAT RAT	9100 MG/KG 20000 MG/KG 627000 MG/M3	3 MINUTES
	LC50 INHALATION GAS.	RAT	48000 PPM .	4 HOURS
ISOPROPANOL	LD50 DERMAL LD50 INTRAPERITONEAL LD50 INTRAVENOUS LD50 ORAL LD50 ORAL	RABBIT RAT RAT RAT RAT	12800 MG/KG 2735 MG/KG 1088 MG/KG 5045 MG/KG 5000 MG/KG	

9/10/13

TDLO INTRAPERITONEAL RAT LC50 INHALATION GAS. RAT

800 MG/KG 16000 PPM

8 HOURS

CHRONIC TOXICITY: NO KNOWN SIGNIFICANT EFFECTS OR CRITICAL HAZARDS.

IRRITATION/CORROSION:

CONCLUSION/SUMMARY:

SKIN:

PROLONGED OR REPEATED CONTACT CAN DEFAT THE SKIN AND LEAD TO IRRITATION, CRACKING AND/OR DERMATITIS.

EYES: SEVERELY IRRITATING TO EYES.

RESPIRATORY:

HIGH VAPOR CONCENTRATIONS CAN CAUSE HEADACHES, DIZZINESS, DROWSINESS AND NAUSEA AND MAY LEAD TO UNCONSCIOUSNESS.

SENSITIZER: NO KNOWN SIGNIFICANT EFFECTS OR CRITICAL HAZARDS.

CARCINOGENICITY:

CLASSIFICATION:

PRODUCT/INGREDIENT NAME ACGIH IARC EPA NIOSH NTP OSHA

ISOPROPANOL A4 3

MUTAGENICITY: NO KNOWN SIGNIFICANT EFFECTS OR CRITICAL HAZARDS.

TERATOGENICITY: NO KNOWN SIGNIFICANT EFFECTS OR CRITICAL HAZARDS.

REPRODUCTIVE TOXICITY: NO KNOWN SIGNIFICANT EFFECTS OR CRITICAL HAZARDS.

MEXICO:

ACUTE TOXICITY:

PRODUCT/INGREDIENT NAME	RESULT	SPECIES	DOSE	EXPOSURE
N-HEXANE	LD50 ORAL LD50 ORAL LDLO INTRAPERITONEAL TDLO ORAL	RAT RAT RAT RAT	29700 MG/KG 15840 MG/KG 9100 MG/KG 20000 MG/KG	
	LC50 INHALATION VAPOR	RAT	627000 MG/M3	3 MINUTES
	LC50 INHALATION GAS.	RAT	48000 PPM	4 HOURS
ISOPROPANOL	LD50 DERMAL LD50 INTRAPERITONEAL LD50 ORAL LD50 ORAL TDL0 INTRAPERITONEAL LC50 INHALATION GAS.	RAT RAT RAT RAT	12800 MG/KG 2735 MG/KG 1088 MG/KG 5045 MG/KG 5000 MG/KG 800 MG/KG 16000 PPM	8 HOURS

CHRONIC TOXICITY: NO KNOWN SIGNIFICANT EFFECTS OR CRITICAL HAZARDS.

IRRITATION/CORROSION:

CONCLUSION/SUMMARY:

SKIN:

PROLONGED OR REPEATED CONTACT CAN DEFAT THE SKIN AND LEAD TO IRRITATION, CRACKING AND/OR DERMATITIS.

EYES: SEVERELY IRRITATING TO EYES.

RESPIRATORY:

HIGH VAPOR CONCENTRATIONS CAN CAUSE HEADACHES, DIZZINESS, DROWSINESS AND NAUSEA AND MAY LEAD TO UNCONSCIOUSNESS.

SENSITIZER: NO KNOWN SIGNIFICANT EFFECTS OR CRITICAL HAZARDS.

CARCINOGENICITY:

CLASSIFICATION:

PRODUCT/INGREDIENT NAME ACGIH IARC EPA NIOSH NTP OSHA

ISOPROPANOL

A4 3

MUTAGENICITY: NO KNOWN SIGNIFICANT EFFECTS OR CRITICAL HAZARDS.

TERATOGENICITY: NO KNOWN SIGNIFICANT EFFECTS OR CRITICAL HAZARDS.

REPRODUCTIVE TOXICITY: NO KNOWN SIGNIFICANT EFFECTS OR CRITICAL HAZARDS.

### 12. ECOLOGICAL INFORMATION

A top

ENVIRONMENTAL EFFECTS: NO KNOWN SIGNIFICANT EFFECTS OR CRITICAL HAZARDS.

UNITED STATES:

AQUATIC ECOTOXICITY:

PRODUCT/INGREDIENT TEST RESULT SPECIES EXPOSURE

NAME

N-HEXANE ACUTE LC50: FISH - MOZAMBIQUE 96 HOURS

113000 TILAPIA - TILAPIA (MICRO)G/L MOSSAMBICA - 99 MM

FRESH WATER - 10 G

ACUTE LC50: FISH - FATHEAD MINNOW - 96 HOURS

2500 TO 2980 PIMEPHALES PROMELAS - (MICRO)G/L 31 DAYS - 20.4 MM

FRESH WATER - 0.123 G

ISOPROPANOL ACUTE LC50: FISH - FATHEAD MINNOW - 96 HOURS

11130000 PIMEPHALES PROMELAS (MICRO)G/L JUVENILE (FLEDGLING,
FRESH WATER HATCHLING, WEANLING)
- 4 TO 8 WEEKS - 1.1

TO 3.1 CM

ACUTE LC50: FISH - FATHEAD MINNOW - 96 HOURS

10400000 TO PIMEPHALES PROMELAS - 29 10600000 DAYS - 20 MM - 0.103 G

10600000 DAYS - 20 MM - 0.10 (MICRO)G/L FRESH WATER

אמוזשם דמכת הדמון האשווהא אדאואומנו מל וומודה

# Grainger MSDS Lookup

ACUTE LC50: FISH - FATHEAD MINNOW - 96 HOURS 6550000 TO PIMEPHALES PROMELAS - 31 7450000 DAYS - 17.4 MM - 0.082 G (MICRO)G/L FRESH WATER  ACUTE LC50: FISH - HARLEQUINFISH, 96 HOURS 4200000 RED RASBORA - RASBORA (MICRO)G/L HETEROMORPHA - 1 TO 3 CM FRESH WATER  ACUTE LC50: FISH - WESTERN 96 HOURS >1400000 MOSQUITOFISH - GAMBUSIA (MICRO)G/L AFFINIS - 20 TO 30 MM  ACUTE LC50: CRUSTACEANS - COMMON 48 HOURS 1400000 TO SHRIMP, SAND SHRIMP - 1950000 CRANGON CRANGON (MICRO)G/L MARINE WATER	964000 100000	000 ))G/L	PIMEPHALES PROMELAS - 31 DAYS - 20.6 MM - 0.117 G	HUUKS
4200000 RED RASBORA - RASBORA (MICRO)G/L HETEROMORPHA - 1 TO 3 CM FRESH WATER  ACUTE LC50: FISH - WESTERN 96 HOURS >1400000 MOSQUITOFISH - GAMBUSIA (MICRO)G/L AFFINIS - 20 TO 30 MM  ACUTE LC50: CRUSTACEANS - COMMON 48 HOURS 1400000 TO SHRIMP, SAND SHRIMP - 1950000 CRANGON CRANGON (MICRO)G/L	655000 745000 (MICRO	0 TO 0 0)G/L	PIMEPHALES PROMELAS - 31	HOURS
>1400000 MOSQUITOFISH - GAMBUSIA (MICRO)G/L AFFINIS - 20 TO 30 MM  ACUTE LC50: CRUSTACEANS - COMMON 48 HOURS 1400000 TO SHRIMP, SAND SHRIMP - 1950000 CRANGON CRANGON (MICRO)G/L	420000 (MICRO	0 )G/L	RED RASBORA - RASBORA	HOURS
1400000 TO SHRIMP, SAND SHRIMP - 1950000 CRANGON CRANGON (MICRO)G/L	>14000	00	MOSQUITOFISH - GAMBUSIA	HOURS
	140000 195000 (MICRO	0 TO 0 )G/L	SHRIMP, SAND SHRIMP -	HOURS

BIODEGRADABILITY: NO KNOWN SIGNIFICANT EFFECTS OR CRITICAL HAZARDS.

# CANADA:

# AQUATIC ECOTOXICITY:

PRODUCT/INGREDIENT NAME	TEST	RESULT	SPECIES	EXPOSURE
N-HEXANE		113000	FISH - MOZAMBIQUE TILAPIA - TILAPIA MOSSAMBICA - 99 MM - 10 G	96 HOURS
		2500 TO 2980	FISH - FATHEAD MINNOW - PIMEPHALES PROMELAS - 31 DAYS - 20.4 MM - 0.123 G	96 HOURS
ISOPROPANOL		11130000 (MICRO)G/L	FISH - FATHEAD MINNOW - PIMEPHALES PROMELAS - JUVENILE (FLEDGLING, HATCHLING, WEANLING) - 4 TO 8 WEEKS - 1.1 TO 3.1 CM	96 HOURS
		10400000 TO	FISH - FATHEAD MINNOW - PIMEPHALES PROMELAS - 29 DAYS - 20 MM - 0.103 G	96 HOURS
		9640000 TO	FISH - FATHEAD MINNOW - PIMEPHALES PROMELAS - 31 DAYS - 20.6 MM - 0.117 G	96 HOURS

	FISH - FATHEAD MINNOW - PIMEPHALES PROMELAS - 31 DAYS - 17.4 MM - 0.082 G	96	HOURS
4200000	FISH - HARLEQUINFISH, RED RASBORA - RASBORA HETEROMORPHA - 1 TO 3 CM	96	HOURS
>1400000	FISH - WESTERN MOSQUITOFISH - GAMBUSIA AFFINIS - 20 TO 30 MM	96	HOURS
ACUTE LC50: 1400000 TO 1950000 (MICRO)G/L MARINE WATER	SHRIMP, SAND SHRIMP -	48	HOURS

BIODEGRADABILITY: NO KNOWN SIGNIFICANT EFFECTS OR CRITICAL HAZARDS.

# MEXICO:

# AQUATIC ECOTOXICITY:

	RODUCT/INGREDIENT AME	TEST	RESULT	SPECIES	EXPOSURE
N-	-HEXANE		ACUTE LC50: 113000 (MICRO)G/L FRESH WATER	FISH - MOZAMBIQUE TILAPIA - TILAPIA MOSSAMBICA - 99 MM - 10 G	96 HOURS
			2500 TO 2980	FISH - FATHEAD MINNOW - PIMEPHALES PROMELAS - 31 DAYS - 20.4 MM - 0.123 G	
IS	SOPROPANOL		11130000 (MICRO)G/L	FISH - FATHEAD MINNOW - PIMEPHALES PROMELAS - JUVENILE (FLEDGLING, HATCHLING, WEANLING) - 4 TO 8 WEEKS - 1.1 TO 3.1 CM	96 HOURS
			10400000 TO	FISH - FATHEAD MINNOW - PIMEPHALES PROMELAS - 29 DAYS - 20 MM - 0.103 G	96 HOURS
			9640000 TO	FISH - FATHEAD MINNOW - PIMEPHALES PROMELAS - 31 DAYS - 20.6 MM - 0.117 G	96 HOURS
			6550000 TO	FISH - FATHEAD MINNOW - PIMEPHALES PROMELAS - 31 DAYS - 17.4 MM - 0.082 G	96 HOURS

FRESH WATER

ACUTE LC50: 4200000	FISH - HARLEQUINFISH, RED RASBORA - RASBORA	96	HOURS
(MICRO)G/L FRESH WATER	HETEROMORPHA - 1 TO 3 CM		
ACUTE LC50: 1400000 TO	CRUSTACEANS - COMMON SHRIMP, SAND SHRIMP -	48	HOURS
1950000 (MICRO) G/L	CRANGON CRANGON		
MARINE WATER			
ACUTE LC50: >1400000 (MICRO)G/L	FISH - WESTERN MOSQUITOFISH - GAMBUSIA AFFINIS - 20 TO 30 MM	96	HOURS

BIODEGRADABILITY: NO KNOWN SIGNIFICANT EFFECTS OR CRITICAL HAZARDS.

OTHER ADVERSE EFFECTS: NO KNOWN SIGNIFICANT EFFECTS OR CRITICAL HAZARDS.

### 13. DISPOSAL CONSIDERATIONS

A top

### WASTE DISPOSAL:

THE GENERATION OF WASTE SHOULD BE AVOIDED OR MINIMIZED WHEREVER POSSIBLE. EMPTY CONTAINERS OR LINERS MAY RETAIN SOME PRODUCT RESIDUES. THIS MATERIAL AND ITS CONTAINER MUST BE DISPOSED OF IN A SAFE WAY. DISPOSE OF SURPLUS AND NON-RECYCLABLE PRODUCTS VIA A LICENSED WASTE DISPOSAL CONTRACTOR. DISPOSAL OF THIS PRODUCT, SOLUTIONS AND ANY BY-PRODUCTS SHOULD AT ALL TIMES COMPLY WITH THE REQUIREMENTS OF ENVIRONMENTAL PROTECTION AND WASTE DISPOSAL LEGISLATION AND ANY REGIONAL LOCAL AUTHORITY REQUIREMENTS. AVOID DISPERSAL OF SPILLED MATERIAL AND RUNOFF AND CONTACT WITH SOIL, WATERWAYS, DRAINS AND SEWERS.

DISPOSAL SHOULD BE IN ACCORDANCE WITH APPLICABLE REGIONAL, NATIONAL AND LOCAL LAWS AND REGULATIONS.

REFER TO SECTION 7: HANDLING AND STORAGE AND SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION FOR ADDITIONAL HANDLING INFORMATION AND PROTECTION OF EMPLOYEES.

# 14. TRANSPORT INFORMATION

A top

REGULATORY INFORMATION	UN NUMBER	PROPER SHIPPING NAME	CLASSES
DOT CLASSIFICATION	1133	CONSUMER COMMODITY	ORM-D
TDG CLASSIFICATION	1133	ADHESIVES, CONTAINING FLAMMABLE LIQUID	3
MEXICO CLASSIFICATION	1133	ADHESIVES, CONTAINING FLAMMABLE LIQUID	3
ADR/RID CLASS	1133	ADHESIVES, CONTAINING FLAMMABLE LIQUID	3
IMDG CLASS	1133	ADHESIVES, CONTAINING FLAMMABLE LIQUID	3

## Grainger MSDS Lookup

IATA-DGR CLASS ID8000 CONSUMER COMMODITY 9

REGULATORY INFORMATION PG\* LABEL ADDITIONAL INFORMATION

DOT CLASSIFICATION III

TDG CLASSIFICATION III CLASS 3, FLAMMABLE REMARKS:

LIQUIDS LIMITED QUANTITY

MEXICO CLASSIFICATION III CLASS 3, FLAMMABLE

LIQUIDS

ADR/RID CLASS III CLASS 3, FLAMMABLE

LIQUIDS

IMDG CLASS III CLASS 3 - FLAMMABLE REMARKS:

LIQUIDS

LIMITED QUANTITY

IATA-DGR CLASS III CLASS 9,

CLASS/DIVISION 9 PACKING GROUP III

PG\*: PACKING GROUP

# 15. REGULATORY INFORMATION

A top

UNITED STATES:

HCS CLASSIFICATION: FLAMMABLE LIQUID TOXIC MATERIAL IRRITATING MATERIAL

U.S. FEDERAL REGULATIONS:

TSCA 8(A) IUR:

STYRENE POLYMER WITH 1,3-BUTADIENE;

DISTILLATES (PETROLEUM), HYDROTREATED HEAVY NAPHTHENIC

UNITED STATES INVENTORY (TSCA 8B): ALL COMPONENTS ARE LISTED OR EXEMPTED.

SARA 302/304 EMERGENCY PLANNING AND NOTIFICATION: NO PRODUCTS WERE FOUND.

SARA 302/304/311/312 EXTREMELY HAZARDOUS SUBSTANCES: NO PRODUCTS WERE FOUND.

SARA 302/304/311/312 HAZARDOUS CHEMICALS:

N-HEXANE; ISOPROPANOL; STYRENE POLYMER WITH 1,3-BUTADIENE

SARA 311/312 MSDS DISTRIBUTION - CHEMICAL INVENTORY - HAZARD

IDENTIFICATION:

TITEBOND PANEL & FOAMBOARD ADHESIVE:

FIRE HAZARD, IMMEDIATE (ACUTE) HEALTH HAZARD, DELAYED (CHRONIC)

HEALTH HAZARD

DEA LIST I CHEMICALS (PRECURSOR CHEMICALS): NOT LISTED

DEA LIST II CHEMICALS (ESSENTIAL CHEMICALS): NOT LISTED

SARA 313:

PRODUCT NAME

CAS NUMBER

CONCENTRATION

FORM R - REPORTING REQUIREMENTS:

N-HEXANE

110-54-3

25 - 50

ISOPROPANOL

67-63-0

1 - 5

SUPPLIER NOTIFICATION:

N-HEXANE

110-54-3

25 - 50

ISOPROPANOL

67-63-0

1 - 5

SARA 313 NOTIFICATIONS MUST NOT BE DETACHED FROM THE MSDS AND ANY COPYING AND REDISTRIBUTION OF THE MSDS SHALL INCLUDE COPYING AND REDISTRIBUTION OF THE NOTICE ATTACHED TO COPIES OF THE MSDS SUBSEQUENTLY REDISTRIBUTED.

STATE REGULATIONS:

MASSACHUSETTS SPILL: NONE OF THE COMPONENTS ARE LISTED.

MASSACHUSETTS SUBSTANCES:

THE FOLLOWING COMPONENTS ARE LISTED: HEXANE; ISOPROPYL ALCOHOL

NEW JERSEY HAZARDOUS SUBSTANCES:

THE FOLLOWING COMPONENTS ARE LISTED:

N-HEXANE; HEXANE; ISOPROPYL ALCOHOL; 2-PROPANOL

NEW JERSEY SPILL: NONE OF THE COMPONENTS ARE LISTED.

NEW JERSEY TOXIC CATASTROPHE PREVENTION ACT:

NONE OF THE COMPONENTS ARE LISTED.

PENNSYLVANIA RTK HAZARDOUS SUBSTANCES:

THE FOLLOWING COMPONENTS ARE LISTED: HEXANE; 2-PROPANOL

# CANADA:

WHMIS (CANADA):

CLASS B-2: FLAMMABLE LIQUID

CLASS D-2A: MATERIAL CAUSING OTHER TOXIC EFFECTS (VERY TOXIC).

CLASS D-2B: MATERIAL CAUSING OTHER TOXIC EFFECTS (TOXIC).

CANADIAN LISTS:

CEPA TOXIC SUBSTANCES: NONE OF THE COMPONENTS ARE LISTED.

CANADIAN ARET: NONE OF THE COMPONENTS ARE LISTED.

CANADIAN NPRI:

THE FOLLOWING COMPONENTS ARE LISTED: N-HEXANE; ISOPROPYL ALCOHOL

ALBERTA DESIGNATED SUBSTANCES: NONE OF THE COMPONENTS ARE LISTED.

ONTARIO DESIGNATED SUBSTANCES: NONE OF THE COMPONENTS ARE LISTED.

QUEBEC DESIGNATED SUBSTANCES: NONE OF THE COMPONENTS ARE LISTED.

CANADA INVENTORY: NOT DETERMINED.

THIS PRODUCT HAS BEEN CLASSIFIED IN ACCORDANCE WITH THE HAZARD CRITERIA OF

THE CONTROLLED PRODUCTS REGULATIONS AND THE MSDS CONTAINS ALL THE INFORMATION REQUIRED BY THE CONTROLLED PRODUCTS REGULATIONS.

MEXICO:

CLASSIFICATION:

NFPA:

HEALTH

FLAMMABILITY 3

REACTIVITY

SPECIAL

INTERNATIONAL REGULATIONS:

INTERNATIONAL LISTS:

AUSTRALIA INVENTORY (AICS): NOT DETERMINED.

CHINA INVENTORY (IECSC): NOT DETERMINED.

JAPAN INVENTORY: NOT DETERMINED.

KOREA INVENTORY: NOT DETERMINED.

NEW ZEALAND INVENTORY OF CHEMICALS (NZIOC): NOT DETERMINED.

PHILIPPINES INVENTORY (PICCS): NOT DETERMINED.

CHEMICAL WEAPONS CONVENTION LIST SCHEDULE I CHEMICALS: NOT LISTED

CHEMICAL WEAPONS CONVENTION LIST SCHEDULE II CHEMICALS: NOT LISTED

CHEMICAL WEAPONS CONVENTION LIST SCHEDULE III CHEMICALS: NOT LISTED

#### **16. OTHER INFORMATION**

A top

#### LABEL REQUIREMENTS:

EXTREMELY FLAMMABLE LIQUID AND VAPOR. FLAMMABLE. VAPOR MAY CAUSE FLASH FIRE. HARMFUL IF INHALED. CAUSES EYE AND SKIN IRRITATION. MAY BE HARMFUL IF SWALLOWED. MAY CAUSE RESPIRATORY TRACT IRRITATION. PROLONGED OR REPEATED CONTACT MAY DRY SKIN AND CAUSE IRRITATION.

HAZARDOUS MATERIAL INFORMATION SYSTEM (U.S.A.):

HEALTH

2

FLAMMABILITY

PHYSICAL HAZARDS 0

#### CAUTION:

HMIS(R\*) RATINGS ARE BASED ON A 0-4 RATING SCALE, WITH 0 REPRESENTING MINIMAL HAZARDS OR RISKS, AND 4 REPRESENTING SIGNIFICANT HAZARDS OR RISKS ALTHOUGH HMIS(R\*) RATINGS ARE NOT REQUIRED ON MSDSS UNDER 29 CFR 1910.1200, THE PREPARER MAY CHOOSE TO PROVIDE THEM. HMIS(R\*) RATINGS ARE TO BE USED WITH A FULLY IMPLEMENTED HMIS(R\*) PROGRAM. HMIS(R\*) IS A REGISTERED MARK OF THE NATIONAL PAINT & COATINGS ASSOCIATION (NPCA). HMIS(R\*) MATERIALS MAY BE PURCHASED EXCLUSIVELY FROM J. J. KELLER (800) 327-6868.

THE CUSTOMER IS RESPONSIBLE FOR DETERMINING THE PPE CODE FOR THIS MATERIAL.

DATE OF PRINTING: 12/16/2010.

DATE OF ISSUE: 10/19/2010.

DATE OF PREVIOUS ISSUE: 7/21/2009.

VERSION: 1

| INDICATES INFORMATION THAT HAS CHANGED FROM PREVIOUSLY ISSUED VERSION.

#### NOTICE TO READER:

TO THE BEST OF OUR KNOWLEDGE, THE INFORMATION CONTAINED HEREIN IS ACCURATE. HOWEVER, NEITHER THE ABOVE-NAMED SUPPLIER, NOR ANY OF ITS SUBSIDIARIES, ASSUMES ANY LIABILITY WHATSOEVER FOR THE ACCURACY OR COMPLETENESS OF THE INFORMATION CONTAINED HEREIN.

FINAL DETERMINATION OF SUITABILITY OF ANY MATERIAL IS THE SOLE RESPONSIBILITY OF THE USER. ALL MATERIALS MAY PRESENT UNKNOWN HAZARDS AND SHOULD BE USED WITH CAUTION. ALTHOUGH CERTAIN HAZARDS ARE DESCRIBED HEREIN, WE CANNOT GUARANTEE THAT THESE ARE THE ONLY HAZARDS THAT EXIST.

ITEM: 20208 - Flux	brazing i Lb can
PICK_REQ: 1056554772 MATERIAL SAFETY D	
This MSDS should be attached or kept with the r	espective product with which it is associated. ####################################
######################################	NO. 1 BLUE FLUX: LIGHT BLUE POWDER, ODORLESS.
Associated Grainger Item: 2C258 - Flux Brazing 1 Lb Can	BRAZO FLUX: WHITE POWDER, ODORLESS.
MATERIAL SAFETY DATA SHEET	IV. FIRE & EXPLOSION HAZARD
(ESSENTIALLY SIMILAR TO U.S. DEPARTMENT OF LABOR SUGGESTED FORM FOR HAZARD COMMUNICATION COMPLIANCE)	FLAMMABLE/EXPLOSIVE: NO (X) YES ( )
FORM NO.: MSDS #21-D	UNDER WHAT CONDITIONS: ONLY THE PACKAGING FOR THIS PRODUCT WILL BURN.
DATE REVISED: 03/20/2006	THE TAXABLE PROPERTY AS A SECOND OF THE PROPERTY AS A SECO
NFPA RATINGS: HEALTH 1 FIRE 0 REACTIVITY 0 SPECIAL HAZARD RATINGS: 4 = EXTREME	EXTINGUISHING FEDITOR.  THIS PRODUCT WILL NOT BURN; HOWEVER, WELDING ARCS AND SPARKS CAN ICMITE THIS PRODUCT WILL NOT BURN; HOWEVER, WELDING ARCS AND SPARKS CAN ICMITE COMMENDED FOR THE BURNING MATERIALS AND FIRE SITUATION. SEE ANSI Z49.1 "SAFETY IN WELDING AND CUTTING" AND "SAFE PRACTICES" CODE:  SP. FUBLISHED BY THE AMERICAN WELDING SOCIETY, P.O. BOX 351040, MIAMI, FL SP. FUBLISHED BY THE AMERICAN WELDING SOCIETY, P.O. BOX 351040, MIAMI, FL NATIONAL FIRE PROTECTION ASSOCIATION, BATTERYMARCH PARK, QUINCY, MA 02269 FOR ADDITIONAL FIRE PREVENTION AND PROTECTION INFORMATION.
= EARCH 3 = HIGH 2 = MODERATE 1 = SLIGHT 0 = INSIGNIFICANT	
I. PRODUCT IDENTIFICATION	STABILITY: STABLE (X) UNSTABLE ()
PRODUCT TYPE:	HAZARDOUS POLYMERIZATION: WILL NOT OCCUR.
ALL-STATE GENERAL PURPOSE BRAZE WELDING AND WELDING FLUXES (ALL-STATE NO. 5 RED FLUX FOR TORCH BRAZING ON CAST IRON)	INCOMPATIBILITY (MATERIALS TO AVOID): ACETIC ANHYDRIDE, ELEMENTAL FOTASSIUM AND OTHER REACTIVE METALS SUCH AS
MANUFACTURER: THE ESAB GROUP, INC	ZIRCONIUM METAL.
ADDRESS: 801 WILSON AVENUE HANOVER, PA 17331	HAZARDOUS DECOMPOSITION PRODUCTS: BORON OXIDE FUMES, WELDING FUMES AND GASES CANNOT BE CLASSIFIED SIMPLY. THE COMPOSITION AND QUANTITY OF THE FUMES AND GASES ARE DEPENDENT UPON THE BASE METAL, THE FLUX AND FILLER METAL BEING USED. COATINGS ON THE BASE METAL SUCH
TELEPHONE NO.: 1-717-637-8911 1-800-933-7070	AS PAINT, GALVANIZING OR PLATING WILL PRODUCE FUMES AS WELL. OTHER CONDITIONS WHICH INFLIENCE THE COMPOSITION AND QUALITY OF THE FUMES AND GASES TO WHICH WORKERS MAY BE EXPOSED ARE THE NUMBER OF OPERATORS RELATIVE TO THE VOLUME OF THE WORK AREA, THE QUALITY AND AMOUNT OF VENTILATION, THE POSITION OF THE WELDER'S HEAD IN RESPECT TO THE FUME PLANE, AS WELL AS THE
EMERGENCY NO. (CHEMIREC): 1-717-637-8911 1-800-424-9300	PRESENCE OF CONTAMINAMIS IN THE AIMOSPHERE SUCH AS HALLGENATED HYDROCARBON VAPORS FROM CLEANING AND DEGREASING ACTIVITIES.
WEBSITE: WWW.ESABNA.COM	WHEN WELDING, THE COMPOSITION OF THE FUMES AND GASES ARE USUALLY DIFFERENT FROM THE COMPOSITION OF THE INCREDIENTS MENTIONED IN SECTION II. FUME
PRODUCT DESCRIPTION: GCLOMERATED POWDERS FOR USE AS FLUXING AGENTS IN ARC OR TORCH BRAZING, BRAZE WELDING AND OTHER WELDING PROCESSES.	INGREDIENTS OF NORMAL OPERATION INCLUDE THESE CATESIATION FROM VOLATILIZATION, REACTION, OR OXIDIZATION OF THE MATERIALS NOTED IN THE ABOVE PARAGRAPH. REASONABLY EXPECTED FUSE CONSTITUENTS INCLUDE BORIC OXIDE (CAS NUMBER 1303-86-2) WITH OSTA TWA AND ACCID TIL LISTINGS OF 10 MG/M3, AND
NOMINAL CHEMICAL COMPOSITION (WT. %):	OXIDES OF IRON AND CARBON.
ALL-STATE PRODUCT TRADE NAME BORAX BORIC ACID IRON OXIDE	INCLUDE A COMPLEY OF THE OXIDES OF THE MATERIALS LISTED IN SECTION II. AS
ALL-STATE NO. 1 BLUE FLUX (1) 30-39 60-69	WELL AS CARBON MONOXIDE, CARBON DIOXIDE, OZONE AND NITROJEN OXIDES (REFER TO
ALL-STATE NO. 5 RED FLUX (1) 28-35 52-55 <10	SOCIETY). THE ONLY WAY TO DETERMINE THE TRUE IDENTITY OF THE DECUMENT OF THE
ALL-STATE BRAZO FLUX (1) 10-30 60-90	FUMES AND GASES TO WHICH A WORKER MAY BE OVEREXPOSED CAN BE DETERMINED FROM INSTITUTE THE WELDER'S HELMET, IF WORN, OR IN THE
(1) SEE NOTE IN SECTION VI	WORKERS BREATHING ZONE. SEE ANSI/AWS P1.1 "METHOD FOR SAMPLING AIRBORNE PARTICLES GENERATED BY WELDTING AND ALLIED PROCESSES." AVAILABLE FROM THE AMERICAN WELDTING SOCIETY.
II. HAZARDOUS INGREDIENTS	

ALL-STATE PRODUCT TRADE NAME	BORAX	BORIC ACID	IRON OXIDE
ALL-STATE NO. 1 BLUE FLUX (1)	30-39 60-	-69	
ALL-STATE NO. 5 RED FLUX (1)	28-35	52-55	<10
ALL-STATE BRAZO FLUX (1)	10-30	60-90	

#### — II. HAZARDOUS INGREDIENTS

IMPORTANT IMPORTANT:
THIS SECTION COVERS THE MATERIALS FROM WHICH THIS PRODUCT IS MANUFACTURED.
THE FUMES AND CASES PRODUCED DURING NORMAL USE OF THESE PRODUCTS ARE COVERED
IN SECTION V. THE TERM HAZARDOUS SHOULD BE INTERPRETED AS A TERM REQUIRED
AND DEFINED BY LAWS, STATUTES, OR REGULATIONS, AND DOES NOT NECESSARILY
MIPLY THE EXISTENCE OF ANY HAZARD WHEN THE PRODUCTS ARE USED AS DIRECTED BY
THE ESAB GROUP.

MATERIAL (CAS NO.) SARA ACGIH TLV TWA (MG/M3) 10 (1330-43-4) FORAX 5 (B2O3 -RESPIRABLE) 10 (B2O3) BORIC ACID (10043-35-3) 10

IRON OXIDE (1309-37-1)

IN THE INGREDIENTS TABLE, AN ASTERISK (\*) AFTER THE CAS NUMBER INDICATES A TOXIC CHEMICAL SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF THE EMERGENCY PLANNING AND COMMUNITY RIGHT-TO-KNOW ACT OF 1986 (SARA) AND 40 CFR PART 372.

- III. PHYSICAL DATA

PHYSICAL STATE: GAS LIQUID () SOLID (X)

SOLUBILITY IN WATER: MODERATE

SPECIFIC GRAVITY (H2O = 1): NO. 5 RED FLUX: 1.87

BULK DENSITY (LBS/FT3): NO. 1 BLUE FLUX: 91 BRAZO FLUX: 91.2

ODOR AND APPEARANCE:

- VI. PHYSICAL AND HEALTH HAZARD DATA .

ELECTRIC ARC WORKING MAY CREATE ONE OR MORE OF THE FOLLOWING HEALTH OR PHYSICAL HAZARDS. FUMES AND GASES CAN BE DANGEROUS TO YOUR HEALTH. ELECTRIC SHOCK CAN KILL YOU. ARC RAYS CAN INJURE EYES AND BURN SKIN. NOISE CAN DAWAGE HEARING. AN ADDITIONAL DETAILED DESCRIPTION OF THE HEALTH AND PHYSICAL HAZARDS AND THEIR CONSEQUENCES MAY BE FOUND IN ESAB'S FREE PUBLICATIONS F52-529 "PRECAUTIONS AND SAFE PRACTICES FOR ELECTRIC WEIDING AND CUTTING" AND 17982 "STANDARD FOR FIRE PREVENTION DURING WEIDING, CUTTING AND OTHER HOT WORK." YOU MAY OBTAIN COPIES FROM YOUR LOCAL SUPPLIER OR BY WRITING TO OSHA - PEL TWA (MG/M3) STEL (MG/M3) HOT WORK." YOU MAY OBTAIN OTHER ADDRESS IN SECTION I.

ROUTE OF OVEREXPOSURE:
THE PRIMARY ROUTE OF ENTRY OF THIS PRODUCT AND OF THE DECOMPOSITION PRODUCTS
IS BY IN-MALATION. SKIN CONTACT, EYE CONTACT, AND INVESTION ARE POSSIBLE.
WHEN THESE PRODUCTS ARE USED AS RECOMMENDED BY THE ESAB GROUP, AND
VENITLATION MALDITAINS EXPOSURE TO THE DECOMPOSITION PRODUCTS BELOW THE
LIMITS RECOMMENDED IN THIS SECTION, OVEREXPOSURE IS UNLIKELY.

EFFECTS OF ACUTE (SHORT-TERM) OVEREXPOSURE:

INHALATION: IRRITANT TO RESPIRATORY SYSTEM. SNEEZING AND COUGHING. PRE-EXISTING LUNG DISORDERS MAY BE AGGRAVATED.

MILD IRRITATION TO EYE SURFACES. EXISTING DISORDERS MAY BE AGGRAVATED.

SKIN CONTACT:
MILD DERMATITIS OR IRRITATION. PRE-EXISTING SKIN DISORDERS MAY BE
AGGRAVATED.

INGESTION: NAUSEA, VOMITING AND DIARRHEA.

PRE-EXISTING MEDICAL CONDITIONS AGGRAVATED BY OVEREXPOSURE:
INDIVIDUALS WITH ALLERGIES OR IMPAIRED RESPIRATORY FUNCTION MAY HAVE
SYMPTOMS WORSENED BY EXPOSURE TO WELDING FUMES; HOWEVER, SUCH REACTION
CANNOT BE PREDICTED DUE TO THE VARIATION IN COMPOSITION AND QUANTITY OF
THE DECOMPOSITION PRODUCTS.

EFFECIS OF CHRONIC (LONG TERM) OVEREXPOSURE TO AIR CONTAMINANTS MAY LEAD TO THEIR ACCUMULATION IN THE LUNGS, A CONDITION WHICH MAY BE SEEN AS DENSE

ITEM: 20258

AREAS ON CHEST X-RAYS. THE SEVERITY OF THE CHANGE IS PROPORTIONAL TO THE LENGTH OF THE EXPOSURE. THE CHANGES SEEN ARE NOT NECESSARILY ASSOCIANTED WITH SYMPTOMS OR SIGNS OF REDUCED LING FUNCTION OR DISEASE. IN ADDITION, THE CHANGES ON X-RAYS MAY BE CAUSED BY NON-WORK FACTORS SUCH AS SMOKING, ETC. PROLONGED ASSORPTION OF BORIC ACID IN HIGH DOSES MAY CAUSE NAUSEA VOMITING, DIARRHEA WITH DELAYED EFFECTS OF SKIN REDNESS AND PEELING.

EXPOSURE LIMITS FOR THE INGREDIENTS ARE LISTED IN SECTION II. THE ACGIH AND THE 1989 OSHA TWA FOR WELDING FUME IS 5 MG/M3. AT TIMES THE LIMIT FOR A PARTICULAR HAZARDOUS CHEMICAL IS REACHED BEFORE THE LIMIT FOR WELDING FUMES. TIV-TWAS SHOULD BE USED AS A GUIDE IN THE CONTROL OF HEALTH HAZARDS AND NOT AS FIRM LINES BETWEEN SAFE AND EXCESSIVE CONCENTRATIONS. AS NOTED IN SECTION V, THE FUME FROM WELDING AND ALLIED PROCESSES IS A MIXTURE OF MANY COMPONENTS. THEREFORE, A STATUJORY COMPUTATION OF THE EQUIVALENT EXPOSURE IS REQUIRED. THE EQUIVALENT EXPOSURE VALUE FOR THE WELDING AND BRAZING FUME MIXTURE SHALL ALMAYS BE LESS THAN ONE. WHEN THESE PRODUCTS ARE USED AS RECOMMENDED BY THE ESAB GROUP, AND THE PREVENTIVE MEASURES TAIGHT IN THIS MSDS ARE FOLLOWED, OVERSEPOSURE TO HAZARDOUS SUBSTANCES WILL NOT OCCUR. THRESHOLD LIMIT VALUE FOR THESE PRODUCTS IS 1 MG PER CU METER OF AIR.

EMERGENCY FIRST ALD MEASURES: ALWAYS CONTACT PHYSICIAN OR POISON CONTROL CENTER IN CASE OF MEDICAL EMERGENCY

EYE CONTACT: FLUSH EYES WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES TO REMOVE ALL RESIDUE. PROMPTLY SEEK MEDICAL ATTENTION.

SKIN CONTACT:
WASH HANDS WITH SOAP AND WATER TO REMOVE ALL RESIDUE. IF RASH DEVELOPS,
CONSULT A PHYSICIAN.

INHALATION: REMOVE VICTIM TO FRESH AIR. IF FUMES, VAPORS OR DUSTS ARE INHALED, CALL A PHYSICIAN.

CONTAINS BORIC ACID. CALL A PHYSICIAN OR YOUR POISON CONTROL CENTER. ADVISE OF SECTION II.

CARCINOGENIC ASSESSMENT (NIP ANNUAL REPORT, IARC MONOGRAPHS, OTHER): NONE.

(1) WARNING: THIS PRODUCT, WHEN USED FOR WELDING OR CUITING, PRODUCES FUMES OR GASES WHICH CONTAIN CHEMICALS KNOWN TO THE STATE OF CALIFORNIA TO CAUSE BIRTH DEFFECTS AND, IN SOME CASES, CANCER. (CALIFORNIA HEALTH & SAFETY CODE SUBSECTION 25249.5 ET SEQ.)

## VII. PRECAUTIONS FOR SAFE HANDLING AND -USE/APPLICABLE CONTROL MEASURES

READ AND UNDERSTAND THE MANUFACTURER'S INSTRUCTIONS AND THE PRECAUTIONARY LABEL ON THIS PRODUCT. SEE AMERICAN MATTOWAL STANDARD Z-49.1, "SAFETY IN WELDING AND CUTTING," PUBLISHED BY THE AMERICAN WELDING SOCIETY, P.O. BOX 351040, MIAMI, FL 33135 AND CSHA PUBLICATION 2206 (29 C.F.R. 1910), U.S. GOVERNMENT FRINTING OFFICE, SUPERINTENDENT OF DOCUMENTS, P.O. BOX 371954, PITTSBURGH, PA 15250-7954 FOR MORE DETAIL ON MANY OF THE FOLLOWING:

VENTILATION:
USE ENCUCH VENTILATION, LOCAL EXHAUST AT THE ARC, OR BOTH, TO KEEP THE EXCEOSURE WITHIN LEGAL LIMITS. IN THE WORKER'S BREATHING ZONE AND THE GENERAL AREA, THE FUMES AND GASES MUST BE KEFT BELOW THE TILVS AND THE SOUTALENT EXCOSURE MUST COMPUTE TO LESS THAN ONE. TRAIN THE WELDER TO KEEP HIS HEAD OUT THE FUMES. ADEQUATE VENTILATION SHOULD BE USED WHEN MATERIAL IS IN DUSTY OR MOLTEN STATE.

RESPIRATORY PROTECTION:
USE RESPIRATOR OR AIR SUPPLIED RESPIRATOR WHEN WELDING IN
CONFINED SPACES OR WHERE LOCAL EXHAUST OR VENTILATION DOES NOT KEEP EXPOSURE
BELOW TLVS.

EYE PROTECTION: CHEMICAL TIGHT SAFETY GOOGLES. DO NOT WEAR CONTACT LENSES.

PROTECTIVE CLOTHING AND EQUIPMENT:
CHEMICAL AND ACID IMPERVIOUS GLOVES. WEAR HEAD, HAND, AND BODY PROTECTION
WHICH HELP TO PREVENT INJURY FROM RADIATION, SPARKS AND ELECTRICAL SHOCK.
SEE ANSI Z-49.1 FOR ADDITIONAL GUIDELINES. TRAIN THE WELDER NOT TO TOUCH
LIVE ELECTRICAL PARTS AND TO INSULATE HIMSELF FROM WORK AND GROUND.

PROCEDURE FOR CLEANUP OF SPILLS OR LEAKS: CONTAIN SPILL, ABSORB, SWEEP UP. REMOVE TO CHEMICAL SEWER. FLUSH AREA TO CHEMICAL SEWER. AVOID BREATHING DUST.

WASTE DISPOSAL METHODS: PREVENT WASTE FROM CONTAMINATING SURROUNDING ENVIRONMENT. DISCARD ANY PRODUCT, RESIDUE, DISPOSABLE CONTAINER, OR LINER IN AN ENVIRONMENTALLY ACCEPTABLE MANNER, IN FULL COMPLIANCE WITH FEDERAL, STATE, AND LOCAL REGULATIONS.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: STORE FLUX AT AMBIENT CONDITIONS. KEEP UNDER EXTREMELY DRY AND CONTROLLED CONDITIONS. WASH THOROUGHLY AFTER HANDLING TO REMOVE ALL RESIDUE.

OTHER PRECAUTIONS AND/OR SPECIAL HAZARDS: REMOVE AND PROFESSIONALLY CLEAN CONTAMINATED CLOTHING BEFORE REUSE.

THE OPINIONS EXPRESSED IN THIS MSDS ARE THOSE OF QUALIFIED EXPERTS WITHIN THE ESAB GROUP. WE BELIEVE THAT THE INFORMATION CONTAINED HEREIN IS CURRENT AS OF THE DATE OF THIS MSDS. SINCE THE USE OF THIS INFORMATION AND THESE OPINIONS AND THE CONDITIONS OF USE OF THESE PRODUCTS ARE NOT WITHIN THE CONTROL OF THE ESAB GROUP, IT IS THE USER'S OBLIGATION TO DETERMINE THE CONDITIONS OF SAFE USE OF THESE PRODUCTS.

THE ESAB GROUP REQUESTS THE USERS OF THESE PRODUCTS TO STUDY THIS MATERIAL SAFETY DATA SHEET (MSDS) AND THE PRODUCT LABELS AND BECOME FULLY AWARE OF THE PRODUCT HAZARDS AND SAFETY INFORMATION. TO PROMOTE THE SAFE USE OF THESE PRODUCTS A USER SHOULD

(1) NOTIFY AND TRAIN ITS EMPLOYEES, AGENTS AND CONTRACTORS CONCERNING THE INFORMATION ON THIS MSDS AND ANY PRODUCT HAZARDS AND SAFETY INFORMATION,

(2) FURNISH THIS SAME INFORMATION TO EACH OF ITS CUSTOMERS FOR THESE PRODUCTS AND

(3) REQUEST THAT SUCH CUSTOMERS NOTIFY AND TRAIN THEIR EMPLOYEES AND CUSTOMERS, FOR THESE PRODUCTS, OF THE SAME PRODUCT HAZARDS AND SAFETY INFORMATION.

PRODUCT IDENTITY:
ALL-STATE GENERAL PURPOSE BRAZE WELDING AND WELDING FLUXES

MSDS: A9954

# Carlisle Coatings & Waterproofing Incorporated 900 Hensley Lane, Wylie, TX 75098 Ph.: 972-442-6545, 800-527-7092

Fax: 972-442-0076 www.ccwcompanies.com



## Material Safety Data Sheet

Principal Hazardous Components DI-N-OCTYL PHTHALATE (CAS # 117-84-0) Color packs may contain the following components dependent the color being used: COBALT BLUE (CAS# 1345-16-0) CADMIUM SULFIDE (CAS# 1306-23-6) BROWN OXIDE (CAS# 1309-37-1) IRON OXIDE (CAS# 1304-37-1)	Formula   MIXTURE   DOT Hazard Cla   NONE   Manufacturer's F   972-442-6545   Chemtree Phone   800-424-9300     GREDIENTS     Percent   < 10	ERSAL COLOR PACKS ssification Phone Number Number Threshold Limit Value (Units) NOT ESTABLISHED	
Chemical Family N/A Proper DOT Shipping CAULKING COMPOUND Manufacturer Carlisle Coatings & Waterproofing Incorporated Manufacturer's Address 200 Hensley Lane, Wylie, TX 75098 H. IN Principal Hazardous Components DI-N-OCTYL PHTHALATE (CAS # 117-84-0) Color packs may contain the following components dependent the color being used: COBALT BLUE (CAS# 1345-16-0) CADMIUM SULFIDE (CAS# 1306-23-6) BROWN OXIDE (CAS# 1309-37-1) IRON OXIDE (CAS# 1304-37-1)	Formula   MIXTURE   DOT Hazard Cla   NONE   Manufacturer's F   972-442-6545   Chemtree Phone   800-424-9300     GREDIENTS   Percent   < 10   ding     9 - 10     2 - 23	Ssification Phone Number Number Threshold Limit Value (Units) NOT ESTABLISHED	
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CADMIUM SULFIDE (CAS# 1306-23-6) BROWN OXIDE (CAS# 1309-37-1) IRON OXIDE (CAS# 1304-37-1)	2 - 23	■ Samo (mr.) (duet)	
BROWN OXIDE (CAS# 1309-37-1) IRON OXIDE (CAS# 1304-37-1)	THE RESIDENCE OF THE PARTY OF T	5 mg/m <sup>3</sup> (dust) 3.5 mg/m <sup>3</sup> (dust)	
RON OXIDE (CAS# 1304-37-1)	1 - 30	5 mg/m² (dust)	
	18 - 40	5 mg/m² (dust)	
ITTANIUM DIOXIDE (CAS# 13463-67-7)	45 – 50	10 mg/m <sup>3</sup> (dust)	
CARBON BLACK (CAS# 13463-07-7)	43 - 30	3.5 mg/m <sup>3</sup> (dust)	
RAW SIENNA (CAS# 1309-37-1)	2 - 45	5 mg/m² (dust)	
CAN SILABA (CASA 1507-57-1)		Singiti (dian)	
THIS PRODUCT CONTAINS DI-N-OCTYL PHTHALA	TE	HEALTH = 1*	
AND MAY ALSO CONTAIN CADMIUM SULFIDE		FLAMMABILITY = 0	
WHICH ARE SUBJECT TO THE REPORTING	2 9	REACTIVITY = 0	
REQUIREMENTS OF SARA 313 AND 40 CFR, PART 3	372.		
	SICAL DATA		
Boiling Point (°F)	Specific Gravity	$(H_{7}0 = 1)$	
JNKNOWN	1.10 - 1.80		
Vapor Pressure (mm Hg.)	Percent Volatile by Volume (%)		
JNKNOWN	N/A		
Vapor Density (Air = 1)	Evaporation Rate	e (= 1)	
N/A	N/A		
Solubility in Water	pH		
NSOLUBLE	N/A		
Appearance & Odor			
SMOOTH PASTE – MILD ODOR			
137 FIDE & DVDI	OSION HAZAR	DDATA	
	Auto Ignition Te		
Flash Point (Test Method) > 200° F. T.C.C.	UNKNOWN	imperature	
	COLUMN TO SERVICE AND ADDRESS OF THE PARTY O	UEL	
Hammable Limits	LEL		
JNKNOWN	N/A	N/A	
Extinguishing Media:		= =	
WATER AND CO <sub>2</sub>			
Special Fire Fighting Procedures:			
WEAR SELF-CONTAINED BREATHING APPARATU:	S WHEN FIGHTIN	G FIRES INVOLVING CHEMIC	
, a series to		<u> </u>	
Jausual Fire & Explosion Hazards:			







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CCW-201 UN	IVERSAL COLOR		HAZARD DATA
OSHA Pennissi	ble Exposure Limit	v. HEREIM	ACGIH Threshold Limit Value
SEE SECTION	11		SEE SECTION II
Carcinogen – N	TP Program		Carcinogen – IARC Program
NO			NO
Symptoms of E: NO KNOWN II	xposure: .L EFFECTS REPORT	ED IN THE NOR	MAL USE OF COMPOUND.
	ions Aggravated By Ex		
NONE KNOW!			
Primary Route (		13	
Emergency Firs	INHALATION	WITH COPIOLIS A	MOUNTS OF WATER FOR 15 MINUTES. SKIN: WIPE
OFF EXCESS.	WASH WITH SOAP	AND WATER. IN	GESTION: OBTAIN IMMEDIATE MEDICAL
ATTENTION.	INHALATION: REMO	OVE FROM EXPO	SURE AND CALL A PHYSICIAN.
	*	VI. REACT	TIVITY DATA
Stability	Unstable	Conditions to Av	oid
	X Stable	NONE KNOW	N
		Materials to Aven	id STRONG OXIDIZING AND REDUCING AGENTS.
Incompatibility			
Hazardous	May Occur	Conditions to Av	oid
Polymerization	X Will Not Occur	NONE KNOW	N E, CARBON MONOXIDE AND POSSIBLE ORGANIC
Waste Disposal ENVIRONMEN	WIPE UP EXCESS. V FOR DISPOSAL.  Method: DISPOSE IN STAL REGULATIONS	VASH AREA WIT ACCORDANCE V	ROTECTION PROCEDURES H MINERAL SPIRITS. PLACE SPILLED MATERIAL IN WITH STATE, COUNTY AND FEDERAL ECTION INFORMATION
Eye Protection	goed be		Skin Protection RUBBER OR NEOPRENE GLOVES, IF REQUIRED
GLASSES OR G	tection (Specific Type)		Ventilation Recommended
NONE REQUIR			GENERAL VENTILATION SHOULD BE ADEQUATE
Other Protection	1:	2	
BARRIER CRE	AM FOR SKIN		
		IX. SPECIAL	PRECAUTIONS
	ces In Handling & Stora	age:	
	HANDLING PRECAU		
Precautions For SEE SECTION:	Repair & Maintenance S V AND VI	of Contaminated E	squipment:
Other Precaution		OR SMOKING	
WALLET THE TAIL	or product to the same and the same to	Harris and Land	
	The second secon		
	KEEI	POUT OF REA	CH OF CHILDREN!!!!!







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21010 03 00

DATE OF PREPARATION Apr 18, 2013

## SECTION 1 — PRODUCT AND COMPANY IDENTIFICATION

## **PRODUCT NUMBER**

21010

#### **PRODUCT NAME**

TRI-FLOW® Superior Lubricant with PTFE, 21021 22025 26020 29200

#### MANUFACTURER'S NAME

THE SHERWIN-WILLIAMS COMPANY

Consumer Group - Industrial

Cleveland, OH 44115

**Telephone Numbers and Websites** 

Product Information	www.triflowlubricants.com
Regulatory Information	(216) 566-2902
	www.paintdocs.com
Medical Emergency	(216) 566-2917
Transportation Emergency*	(800) 424-9300
	NLY (spill, leak, fire, exposure, or accident)

## SECTION 2 — COMPOSITION/INFORMATION ON INGREDIENTS

% by Weight	CAS Number	Ingredient	Units	Vapor Pressure
30	64742-47-8	Heavy Aliphatic Solvent	t	
		ACGIH TLV	Not Available	1.53 mm
		OSHA PEL	Not Available	
51	64742-52-5	Heavy Naphthenic Petro	oleum Oil	
		ACGIH TLV	5 mg/m3 as Mist	
		OSHA PEL	5 mg/m3 as Mist	
3	64741-97-5	Naphthenic Oil		
		ACGIH TLV	5 mg/m3 as Mist	
	***************************************	OSHA PEL	Not Available	
4	64742-65-0	Heavy Paraffinic Oil		
		ACGIH TLV	5 mg/m3 as Mist	
		OSHA PEL	5 mg/m3 as Mist	
3	34590-94-8	2-Methoxymethylethoxy	propanol	
		ACGIH TLV	100 ppm (Skin)	0.4 mm
		ACGIH TLV	150 ppm (Skin) STEL	
84		OSHA PEL	100 ppm (Skin)	
		OSHA PEL	150 ppm (Skin) STEL	
3	628-63-7	Amyl Acetate		A CONTRACTOR OF THE PARTY OF TH
		ACGIH TLV	100 PPM	4 mm
		OSHA PEL	100 PPM	

#### **SECTION 3 — HAZARDS IDENTIFICATION**

**ROUTES OF EXPOSURE** 

INHALATION of vapor or spray mist.

EYE or SKIN contact with the product, vapor or spray mist.

**EFFECTS OF OVEREXPOSURE** 

EYES: Irritation.

SKIN: Prolonged or repeated exposure may cause irritation.

INHALATION: Irritation of the upper respiratory system.

May cause nervous system depression. Extreme overexposure may result in unconsciousness and possibly death. SIGNS AND SYMPTOMS OF OVEREXPOSURE

Headache, dizziness, nausea, and loss of coordination are indications of excessive exposure to vapors or spray mists. Redness and itching or burning sensation may indicate eye or excessive skin exposure.

HMIS Codes
Health 2
Flammability 2
Reactivity 0

#### MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

None generally recognized.

## CANCER INFORMATION

For complete discussion of toxicology data refer to Section 11.

#### **SECTION 4 — FIRST AID MEASURES**

EYES: Flush eyes with large amounts of water for 15 minutes. Get medical attention.

SKIN: Wash affected area thoroughly with soap and water.

Remove contaminated clothing and launder before re-use.

INHALATION: If affected, remove from exposure. Restore breathing. Keep warm and quiet.

INGESTION: Do not induce vomiting. Get medical attention immediately.

#### **SECTION 5 — FIRE FIGHTING MEASURES**

FLASH POINT LEL UEL FLAMMABILITY CLASSIFICATION
194 °F PMCC 0.6 14.0 Combustible, Flash above 99 and below 200 °F

**EXTINGUISHING MEDIA** 

Carbon Dioxide, Dry Chemical, Foam

cal, Foam

UNUSUAL FIRE AND EXPLOSION HAZARDS

Closed containers may explode when exposed to extreme heat.

Application to hot surfaces requires special precautions.

During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

SPECIAL FIRE FIGHTING PROCEDURES

Full protective equipment including self-contained breathing apparatus should be used.

Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.

#### SECTION 6 — ACCIDENTAL RELEASE MEASURES

#### STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Remove all sources of ignition. Ventilate the area.

Remove with inert absorbent.

#### SECTION 7 — HANDLING AND STORAGE

#### STORAGE CATEGORY

DOL Storage Class IIIA

## PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE

Contents are COMBUSTIBLE. Keep away from heat and open flame.

Consult NFPA Code. Use approved Bonding and Grounding procedures.

Keep container closed when not in use. Transfer only to approved containers with complete and appropriate labeling. Do not take internally. Keep out of the reach of children.

## SECTION 8 — EXPOSURE CONTROLS/PERSONAL PROTECTION

#### PRECAUTIONS TO BE TAKEN IN USE

Use only with adequate ventilation.

Avoid contact with skin and eyes. Avoid breathing vapor and spray mist.

Wash hands after using.

#### VENTILATION

Local exhaust preferable. General exhaust acceptable if the exposure to materials in Section 2 is maintained below applicable exposure limits. Refer to OSHA Standards 1910.94, 1910.107, 1910.108.

#### RESPIRATORY PROTECTION

If personal exposure cannot be controlled below applicable limits by ventilation, wear a properly fitted organic vapor/particulate respirator approved by NIOSH/MSHA for protection against materials in Section 2.

#### **PROTECTIVE GLOVES**

Wear gloves which are recommended by glove supplier for protection against materials in Section 2.

#### **EYE PROTECTION**

Wear safety spectacles with unperforated sideshields.

#### OTHER PRECAUTIONS

Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal.

## SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

PRODUCT WEIGHT 7.36 lb/gal

881 g/l

SPECIFIC GRAVITY

0.89 **BOILING POINT** 288 - 500 °F

142 - 260 °C

MELTING POINT Not Available **VOLATILE VOLUME 38%** 

EVAPORATION RATE Slower than

ether

VAPOR DENSITY Heavier than air

SOLUBILITY IN WATER Not Available

VOLATILE ORGANIC COMPOUNDS (VOC Theoretical - As Packaged)

2.59 lb/gal 310 g/l Less Water and Federally Exempt Solvents

2.59 lb/gal 310 g/l Emitted VOC

## **SECTION 10 — STABILITY AND REACTIVITY**

STABILITY - Stable **CONDITIONS TO AVOID** 

None known.

INCOMPATIBILITY

None known.

HAZARDOUS DECOMPOSITION PRODUCTS

By fire: Carbon Dioxide, Carbon Monoxide

HAZARDOUS POLYMERIZATION

Will not occur

#### SECTION 11 — TOXICOLOGICAL INFORMATION

#### **CHRONIC HEALTH HAZARDS**

No ingredient in this product is an IARC, NTP or OSHA listed carcinogen.

Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

#### **TOXICOLOGY DATA**

CAS No.	Ingredient Name			
64742-47-8	Heavy Aliphatic Solvent			
	LC50 RAT	4HR	Not Available	
	LD50 RAT		Not Available	
64742-52-5	Heavy Naphthenic Petroleum Oil			
	LC50 RAT	4HR	Not Available	
	LD50 RAT		Not Available	
64741-97-5	Naphthenic Oil			TO STORY THE STORY TO STORY THE
	LC50 RAT	4HR	Not Available	
	LD50 RAT		Not Available	
64742-65-0	Heavy Paraffinic Oil			
	LC50 RAT	4HR	Not Available	
	LD50 RAT		Not Available	
34590-94-8	2-Methoxymethylethoxypropanol			
	LC50 RAT	4HR	Not Available	
	LD50 RAT		5135 mg/kg	
628-63-7	Amyl Acetate			
	LC50 RAT	4HR	Not Available	
	LD50 RAT	302/57-05	6500 mg/kg	
			3	

## **SECTION 12 — ECOLOGICAL INFORMATION**

#### **ECOTOXICOLOGICAL INFORMATION**

No data available.

## **SECTION 13 — DISPOSAL CONSIDERATIONS**

#### WASTE DISPOSAL METHOD

Waste from this product is not hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261. Incinerate in approved facility. Do not incinerate closed container. Dispose of in accordance with Federal, State/Provincial, and Local regulations regarding pollution.

#### **SECTION 14 — TRANSPORT INFORMATION**

Multi-modal shipping descriptions are provided for informational purposes and do not consider container sizes. The presence of a shipping description for a particular mode of transport (ocean, air, etc.), does not indicate that the product is packaged suitably for that mode of transport. All packaging must be reviewed for suitability prior to shipment, and compliance with the applicable regulations is the sole responsibility of the person offering the product for transport.

US Ground (DOT)

Not Regulated for Transportation.

Bulk Containers may be Shipped as:

NA1993, COMBUSTIBLE LIQUID, N.O.S. (PETROLEUM DISTILLATES, AMYL

ACETATES), PG III, (ERG#128)

Canada (TDG)

Not Regulated for Transportation.

IMC

Not Regulated for Transportation.

IATA/ICAO

Not Regulated for Transportation.

## SECTION 15 — REGULATORY INFORMATION

## SARA 313 (40 CFR 372.65C) SUPPLIER NOTIFICATION

CAS No.	CHEMICAL/COMPOUND	% by WT	% Element
W-040-01-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-	Zinc Compound	1	0.1
	Barium Compound	3	0.07

**CALIFORNIA PROPOSITION 65** 

WARNING: This product contains a chemical known to the State of California to cause cancer.

#### **TSCA CERTIFICATION**

All chemicals in this product are listed, or are exempt from listing, on the TSCA Inventory.

## SECTION 16 — OTHER INFORMATION

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.

MSDS B8401

ITEM: 4TA89 - Lubricant, Non-Aerosol 7KI-FLUW

DELIVERY: **6239711246** 

HU NUMBER: U233964313

MATERIAL SAFTETY DATA SHEET (MSDS)

This MSDS should be attached or kept with the respective product with which it is associated.

MATERIAL SAFETY DATA SHEET - B8401

Asso ted Grainger Items

MATERIAL SAFETY DATA SHEET

21010

02 00

DATE OF PREPARATION: DEC 2, 2010

----SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION ----

PRODUCT NUMBER: 21010

PRODUCT NAME: TRI-FLOW(TM) SUPERIOR LUBRICANT WITH PTFE, 21021 22025 26020 29200

MANUFACTURER'S NAME: THE SHERWIN-WILLIAMS COMPANY CONSUMER GROUP - INDUSTRIAL CLEVELAND, OH 44115

TELEPHONE NUMBERS AND WEBSITES: REGULATORY INFORMATION: (216) 566-2902 WWW.PAINTDOCS.COM

MEDICAL EMERGENCY: (216) 566-2917

TRANSPORTATION EMERGENCY\*: (800) 424-9300

\*FOR CHEMICAL EMERGENCY ONLY (SPILL, LEAK, FIRE, EXPOSURE, OR ACCIDENT)

-----SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS -----

% BY WEIGHT CAS NUMBER INGREDIENT UNITS

VAPOR PRESSURE

30 64742-47-8 HEAVY ALIPHATIC SOLVENT ACGIH TLV: NOT AVAILABLE OSHA PEL: NOT AVAILABLE

1.53 MM

51 64742-52-5 HEAVY NAPHTHENIC PETROLEUM OIL ACGIH TLV: 5 MG/M3 AS MIST OSHA PEL: 5 MG/M3 AS MIST

3 64741-97-5 NAPHTHENIC OIL ACGIH TLV: 5 MG/M3 AS MIST OSHA PEL: NOT AVAILABLE

4 64742-65-0 HEAVY PARAFFINIC OIL ACGIH TLV: 5 MG/M3 AS MIST OSHA PEL: 5 MG/M3 AS MIST

3 34590-94-8 2-METHOXYMETHYLETHOXYPROPANOL 0.4 MM ACGIH TLV: 100 PPM (SKIN) ACGIH TLV: 150 PPM (SKIN) STEL OSHA PEL: 100 PPM (SKIN) OSHA PEL: 150 PPM (SKIN) STEL

3 628-63-7 AMYL ACETATE ACGIH TLV: 100 PPM OSHA PEL: 100 PPM

4 MM

-----SECTION 3 - HAZARDS IDENTIFICATION -----

HMIS CODES: HEALTH 2 FLAMMABILITY 2 REACTIVITY 0

ROUTES OF EXPOSURE: INHALATION OF VAPOR OR SPRAY MIST. EYE OR SKIN CONTACT WITH THE PRODUCT, VAPOR OR SPRAY MIST.

EFFECTS OF OVEREXPOSURE: EYES: IRRITATION. SKIN: PROLONGED OR REPEATED EXPOSURE MAY CAUSE IRRITATION. INHALATION: IRRITATION OF THE UPPER RESPIRATORY SYSTEM.

MAY CAUSE NERVOUS SYSTEM DEPRESSION, EXTREME OVEREXPOSURE MAY RESULT IN UNCONSCIOUSNESS AND POSSIBLY DEATH.

SIGNS AND SYMPTOMS OF OVEREXPOSURE: HEADACHE, DIZZINESS, NAUSEA, AND LOSS OF COORDINATION ARE INDICATIONS OF EXCESSIVE EXPOSURE TO VAPORS OR SPRAY MISTS.

REDNESS AND ITCHING OR BURNING SENSATION MAY INDICATE EYE OR EXCESSIVE SKIN EXPOSURE.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: MAY CAUSE ALLERGIC SKIN REACTION IN SUSCEPTIBLE PERSONS OR SKIN SENSITIZATION.

FOR \_\_\_ETE DISCUSSION OF TOXICOLOGY DATA REFER TO SECTION 11.

----SECTION 4 - FIRST AID MEASURES ----

EYES: FLUSH EYES WITH LARGE AMOUNTS OF WATER FOR 15 MINUTES. GET MEDICAL ATTENTION.

SKIN: WASH AFFECTED AREA THOROUGHLY WITH SOAP AND WATER. REMOVE CONTAMINATED CLOTHING AND LAUNDER BEFORE RE-USE.

INHALATION:

IF AFFECTED, REMOVE FROM EXPOSURE. RESTORE BREATHING. KEEP WARM AND QUIET.

INGESTION: DO NOT INDUCE VOMITING. GET MEDICAL ATTENTION IMMEDIATELY.

----SECTION 5 - FIRE FIGHTING MEASURES ----

FLASH POINT: 150 DEG. F PMCC

LEL: 0.6 UEL: 14.0

FLAMMABILITY CLASSIFICATION: COMBUSTIBLE, FLASH ABOVE 99 AND BELOW 200 DEG. F

EXTINGUISHING MEDIA: CARBON DIOXIDE, DRY CHEMICAL, FOAM

UNUSUAL FIRE AND EXPLOSION HAZARDS: CLOSED CONTAINERS MAY EXPLODE WHEN EXPOSED TO EXTREME HEAT.

APPLICATION TO HOT SURFACES REQUIRES SPECIAL PRECAUTIONS.

DURING EMERGENCY CONDITIONS OVEREXPOSURE TO DECOMPOSITION PRODUCTS MAY CAUSE A HEALTH HAZARD. SYMPTOMS MAY NOT BE IMMEDIATELY APPARENT. OBTAIN MEDICAL ATTENTION.

SPECIAL FIRE FIGHTING PROCEDURES: FULL PROTECTIVE EQUIPMENT INCLUDING SELF-CONTAINED BREATHING APPARATUS SHOULD BE USED.

WATER SPRAY MAY BE INEFFECTIVE. IF WATER IS USED, FOG NOZZLES ARE PREFERABLE. WATER MAY BE USED TO COOL CLOSED CONTAINERS TO PREVENT PRESSURE BUILD-UP AND POSSIBLE AUTOIGNITION OR EXPLOSION WHEN EXPOSED TO EXTREME HEAT.

-----SECTION 6 - ACCIDENTAL RELEASE MEASURES -----

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: REMOVE ALL SOURCES OF IGNITION. VENTILATE THE AREA. REMOVE WITH INERT ABSORBENT.

----SECTION 7 - HANDLING AND STORAGE -----

STORAGE CATEGORY: DOL STORAGE CLASS IIIA

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: CONTENTS ARE COMBUSTIBLE. KEEP AWAY FROM HEAT AND OPEN FLAME.

CONSULT NFPA CODE. USE APPROVED BONDING AND GROUNDING PROCEDURES.

KEEP CONTAINER CLOSED WHEN NOT IN USE. TRANSFER ONLY TO APPROVED CONTAINERS WITH COMPLETE AND APPROPRIATE LABELING. DO NOT TAKE INTERNALLY. KEEP OUT OF THE REACH OF CHILDREN.

----SECTION 8 ; EXPOSURE CONTROLS/PERSONAL PROTECTION ----

PRECAUTIONS TO BE TAKEN IN USE:
USE ONLY WITH ADEQUATE VENTILATION.
AVOID CONTACT WITH SKIN AND EYES. AVOID BREATHING VAPOR AND SPRAY MIST.
WASH HANDS AFTER USING.

VENTILATION:
LOCAL EXHAUST PREFERABLE. GENERAL EXHAUST ACCEPTABLE IF THE EXPOSURE TO MATERIALS IN SECTION 2 IS MAINTAINED BELOW APPLICABLE EXPOSURE LIMITS. REFER TO OSHA STANDARDS 1910.94, 1910.107, 1910.108.

RESPIRATORY PROTECTION:
IF PERSONAL EXPOSURE CANNOT BE CONTROLLED BELOW APPLICABLE LIMITS BY
VENTILATION, WEAR A PROPERLY FITTED ORGANIC VAPOR/PARTICULATE RESPIRATOR
APPROVED BY NIOSH/MSHA FOR PROTECTION AGAINST MATERIALS IN SECTION 2.

PROTECTIVE GLOVES: WEAR GLOVES WHICH ARE RECOMMENDED BY GLOVE SUPPLIER FOR PROTECTION AGAINST MATERIALS IN SECTION 2.

EYE PROTECTION: WEAR SAFETY SPECTACLES WITH UNPERFORATED SIDESHIELDS.

OTHER PRECAUTIONS: INTENTIONAL MISUSE BY DELIBERATELY CONCENTRATING AND INHALING THE CONTENTS CAN BE HARMFUL OR FATAL.

-----SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES -----

PRODUCT WEIGHT: 7.36 LB/GAL 881 G/L

SPECIFIC GRAVITY: 0.89

BOILING POINT: 288 - 500 DEG. F 142 - 260 DEG. C

MELTING POINT: NOT AVAILABLE

VOLATILE VOLUME: 38%

EVAPORATION RATE: SLOWER THAN ETHER

VAPOR DENSITY: HEAVIER THAN AIR

SOLUBILITY IN WATER: N.A.

VOLATILE ORGANIC COMPOUNDS (VOC THEORETICAL - AS PACKAGED):

#### ----SECTION 10 - STABILITY AND REACTIVITY ----

STABILITY: STABLE

CONDITIONS TO AVOID: NONE KNOWN.

INCO TIBILITY: NONE KNOWN.

HAZ. US DECOMPOSITION PRODUCTS: BY FIRE: CARBON DIOXIDE, CARBON MONOXIDE

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

#### ----SECTION 11 - TOXICOLOGICAL INFORMATION ----

CHRONIC HEALTH HAZARDS:
NO INGREDIENT IN THIS PRODUCT IS AN IARC, NTP OR OSHA LISTED CARCINOGEN.

REPORTS HAVE ASSOCIATED REPEATED AND PROLONGED OVEREXPOSURE TO SOLVENTS 4TA89

TOXICOLOGY DATA:

CAS NO. INGREDIENT NAME

64742-47-8 HEAVY ALIPHATIC SOLVENT LC50 RAT 4HR: NOT AVAILABLE LD50 RAT: NOT AVAILABLE

64742-52-5 HEAVY NAPHTHENIC PETROLEUM OIL LC50 RAT 4HR: NOT AVAILABLE LD50 RAT: NOT AVAILABLE

64741-97-5 NAPHTHENIC OIL LC50 RAT 4HR: NOT AVAILABLE LD50 RAT: NOT AVAILABLE

64742-65-0 HEAVY PARAFFINIC OIL LC50 RAT 4HR: NOT AVAILABLE LD50 RAT: NOT AVAILABLE

34590-94-8 2-METHOXYMETHYLETHOXYPROPANOL LC50 RAT 4HR: NOT AVAILABLE LD50 RAT: 5135 MG/KG

628-63-7 AMYL ACETATE LC50 RAT 4HR: NOT AVAILABLE LD50 RAT: 6500 MG/KG

#### -----SECTION 12 - ECOLOGICAL INFORMATION -----

ECOTOXICOLOGICAL INFORMATION: NO DATA AVAILABLE.

----SECTION 13 - DISPOSAL CONSIDERATIONS -----

WASTE DISPOSAL METHOD:
WASTE FROM THIS PRODUCT IS NOT HAZARDOUS AS DEFINED UNDER THE RESOURCE
CONSERVATION AND RECOVERY ACT (RCRA) 40 CFR 261. INCINERATE IN APPROVED
FACILITY. DO NOT INCINERATE CLOSED CONTAINER. DISPOSE OF IN ACCORDANCE WITH
FEDERAL, STATE/PROVINCIAL, AND LOCAL REGULATIONS REGARDING POLLUTION.

-----SECTION 14 - TRANSPORT INFORMATION -----

NO DATA AVAILABLE.

#### ----SECTION 15 - REGULATORY INFORMATION ----

SARA 313 (40 CFR 372.65C) SUPPLIER NOTIFICATION:

CAS NO. CHEMICAL/COMPOUND % BY WT % ELEMENT

ZINC COMPOUND

0.1

BARIUM COMPOUND 3

3 0.07

CALIFORNIA PROPOSITION 65:

WARNING: THIS PRODUCT CONTAINS A CHEMICAL KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER.

TSCA CERTIFICATION: ALL CHEMICALS IN THIS PRODUCT ARE LISTED, OR ARE EXEMPT FROM LISTING, ON THE TSCA INVENTORY.

#### ----SECTION 16 - OTHER INFORMATION -----

THIS PRODUCT HAS BEEN CLASSIFIED IN ACCORDANCE WITH THE HAZARD CRITERIA OF THE CANADIAN CONTROLLED PRODUCTS REGULATIONS (CPR) AND THE MSDS CONTAINS ALL OF THE INFORMATION REQUIRED BY THE CPR.

THE ABOVE INFORMATION PERTAINS TO THIS PRODUCT AS CURRENTLY FORMULATED, AND IS BASED ON THE INFORMATION AVAILABLE AT THIS TIME. ADDITION OF REDUCERS OR OTHER ADDITIVES TO THIS PRODUCT MAY SUBSTANTIALLY ALTER THE COMPOSITION AND HAZARDS OF THE PRODUCT. SINCE CONDITIONS OF USE ARE OUTSIDE OUR CONTROL, WE MAKE NO WARRANTIES, EXPRESS OR IMPLIED, AND ASSUME NO LIABILITY IN CONNECTION WITH ANY USE OF THIS INFORMATION.

MSDS B2891

ITEM: 2PB97 - Lubricant, Pin Point

DELIVERY: 6239711246

MATERIAL SAFTETY DATA SHEET (MSDS) This MSDS should be attached or kept with the respective product with which it is associated.

MATERIAL SAFETY DATA SHEET - B2891

Grainger Items

MATERIAL SAFETY DATA SHEET

20000

02 00

----SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION -

PRODUCT NUMBER: 20000

PRODUCT NAME: TRI-FLOW(TM) SUPERIOR LUBRICANT WITH PTFE

HEALTH 2 FLAMMABILITY 4 REACTIVITY 0

MANUFACTURER'S NAME: THE SHERWIN-WILLIAMS COMPANY CONSUMER GROUP - INDUSTRIAL CLEVELAND, OH 44115

TELEPHONE NUMBERS AND WEBSITES: REGULATORY INFORMATION: (216) 566-2902 MEDICAL EMERGENCY: (216) 566-2917 TRANSPORTATION EMERGENCY: (800) 424-9300

WWW.PAINTDOCS.COM

FOR CHEMICAL EMERGENCY ONLY (SPILL, LEAK, FIRE, EXPOSURE, OR ACCIDENT)

DATE OF PREPARATION: 25-MAR-08

-----SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS -----

% BY WT CAS NO. INGREDIENT UNITS **VAPOR PRESSURE** 

74-98-6 PROPANE ACGIH TLV: 2500 PPM OSHA PEL: 1000 PPM 10

760 MM

106-97-8 BUTANE ACGIH TLV: 800 PPM OSHA PEL: 800 PPM

24

760 MM

.2-47-8 HEAVY ALIPHATIC SOLVENT ACGIH TLV: NOT AVAILABLE OSHA PEL: NOT AVAILABLE

1.53 MM

64742-52-5 HEAVY NAPHTHENIC PETROLEUM OIL ACGIH TLV: 5 MG/M3 AS MIST OSHA PEL: 5 MG/M3 AS MIST

64741-97-5 NAPHTHENIC OIL ACGIH TLV: 5 MG/M3 AS MIST OSHA PEL: NOT AVAILABLE 2

64742-65-0 HEAVY PARAFFINIC OIL ACGIH TLV: 5 MG/M3 AS MIST OSHA PEL: 5 MG/M3 AS MIST 3

34590-94-8 2-METHOXYMETHYLETHOXYPROPANOL ACGIH TLV: 100 PPM (SKIN) ACGIH TLV: 150 PPM (SKIN) STEL OSHA PEL: 100 PPM (SKIN) OSHA PEL: 150 PPM (SKIN) STEL

628-63-7 AMYL ACETATE ACGIH TLV: 100 PPM OSHA PEL: 100 PPM

4 MM

----SECTION 3 - HAZARDS IDENTIFICATION -

ROUTES OF EXPOSURE: INHALATION OF VAPOR OR SPRAY MIST. EYE OR SKIN CONTACT WITH THE PRODUCT, VAPOR OR SPRAY MIST.

EFFECTS OF OVEREXPOSURE:

EYES: IRRITATION.

SKIN: PROLONGED OR REPEATED EXPOSURE MAY CAUSE IRRITATION.

INHALATION: IRRITATION OF THE UPPER RESPIRATORY SYSTEM.

MAY CAUSE NERVOUS SYSTEM DEPRESSION. EXTREME OVEREXPOSURE MAY RESULT IN UNCONSCIOUSNESS AND POSSIBLY DEATH.

SIGNS AND SYMPTOMS OF OVEREXPOSURE: HEADACHE, DIZZINESS, NAUSEA, AND LOSS OF COORDINATION ARE INDICATIONS OF EXCEY EXPOSURE TO VAPORS OR SPRAY MISTS.

REDN. IND ITCHING OR BURNING SENSATION MAY INDICATE EYE OR EXCESSIVE SKIN EXPOSURE.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: NONE GENERALLY RECOGNIZED.

FOR COMPLETE DISCUSSION OF TOXICOLOGY DATA REFER TO SECTION 11.

----SECTION 4 - FIRST AID MEASURES -

EYES: FLUSH EYES WITH LARGE AMOUNTS OF WATER FOR 15 MINUTES. GET MEDICAL ATTENTION.

WASH AFFECTED AREA THOROUGHLY WITH SOAP AND WATER.
REMOVE CONTAMINATED CLOTHING AND LAUNDER BEFORE RE-USE.

INHALATION: IF AFFECTED, REMOVE FROM EXPOSURE. RESTORE BREATHING. KEEP WARM AND QUIET.

INGESTION: DO NOT INDUCE VOMITING.
GET MEDICAL ATTENTION IMMEDIATELY.

----SECTION 5 - FIRE FIGHTING MEASURES ----

FLASH POINT PROPELLANT: < 0 F

LEL: 0.6 UEL: 14.0

EXTINGUISHING MEDIA: CARBON DIOXIDE, DRY CHEMICAL, FOAM

UNUSUAL FIRE AND EXPLOSION HAZARDS: CONTAINERS MAY EXPLODE WHEN EXPOSED TO EXTREME HEAT.

APPLICATION TO HOT SURFACES REQUIRES SPECIAL PRECAUTIONS.

DURING EMERGENCY CONDITIONS OVEREXPOSURE TO DECOMPOSITION PRODUCTS MAY CAUSE A HEALTH HAZARD. SYMPTOMS MAY NOT BE IMMEDIATELY APPARENT. OBTAIN MEDICAL ATTENTION.

SPECIAL FIRE FIGHTING PROCEDURES: FULL PROTECTIVE EQUIPMENT INCLUDING SELF-CONTAINED BREATHING APPARATUS SHOULD BE USED.

WATER SPRAY MAY BE INEFFECTIVE. IF WATER IS USED, FOG NOZZLES ARE PREFERABLE. WATER MAY BE USED TO COOL CLOSED CONTAINERS TO PREVENT PRESSURE BUILD-UP AND POSSIBLE AUTOIGNITION OR EXPLOSION WHEN EXPOSED TO EXTREME

#### ---- SECTION 6 - ACCIDENTAL RELEASE MEASURES ----

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: REMOVE ALL SOURCES OF IGNITION, VENTILATE THE AREA. REMOVE WITH INERT ABSORBENT.

-----SECTION 7 - HANDLING AND STORAGE -----

STORAGE CATEGORY: NOT AVAILABLE

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: KEEP AWAY FROM HEAT, SPARKS, AND OPEN FLAME. VAPORS WILL ACCUMULATE READILY AND MAY IGNITE EXPLOSIVELY.

DURING USE AND UNTIL ALL VAPORS ARE GONE:
KEEP AREA VENTILATED - DO NOT SMOKE - EXTINGUISH ALL FLAMES, PILOT LIGHTS,
AND HEATERS - TURN OFF STOVES, ELECTRIC TOOLS AND APPLIANCES, AND ANY OTHER
SOURCES OF IGNITION.

CONSULT NFPA CODE. USE APPROVED BONDING AND GROUNDING PROCEDURES. CONTENTS UNDER PRESSURE. DO NOT PUNCTURE, INCINERATE, OR EXPOSE TO TEMPERATURE ABOVE 120F. HEAT FROM SUNLIGHT, RADIATORS, STOVES, HOT WATER, AND OTHER HEAT SOURCES COULD CAUSE CONTAINER TO BURST. DO NOT TAKE INTERNALLY. KEEP OUT OF THE REACH OF CHILDREN.

----SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION ----

PRECAUTIONS TO BE TAKEN IN USE: USE ONLY WITH ADEQUATE VENTILATION.

AVOID CONTACT WITH SKIN AND EYES. AVOID BREATHING VAPOR AND SPRAY MIST. WASH HANDS AFTER USING.

VENTILATION:
LOCAL EXHAUST PREFERABLE. GENERAL EXHAUST ACCEPTABLE IF THE EXPOSURE TO MATERIALS IN SECTION 2 IS MAINTAINED BELOW APPLICABLE EXPOSURE LIMITS. REFER TO OSHA STANDARDS 1910.94, 1910.107, 1910.108.

RESPIRATORY PROTECTION:
IF PERSONAL EXPOSURE CANNOT BE CONTROLLED BELOW APPLICABLE LIMITS BY
VENTILATION, WEAR A PROPERLY FITTED ORGANIC VAPOR/PARTICULATE RESPIRATOR
APPROVED BY NIOSH/MSHA FOR PROTECTION AGAINST MATERIALS IN SECTION 2.

NONE REQUIRED FOR NORMAL APPLICATION OF AEROSOL PRODUCTS WHERE MINIMAL SKIN CONTACT IS EXPECTED. FOR LONG OR REPEATED CONTACT, WEAR CHEMICAL RESISTANT

EYE PROTECTION: WEAR SAFETY SPECTACLES WITH UNPERFORATED SIDESHIELDS.

OTHER PRECAUTIONS: INTENTIONAL MISUSE BY DELIBERATELY CONCENTRATING AND INHALING THE CONTENTS CAN BE HARMFUL OR FATAL.

-----SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES -----

PRODUCT WEIGHT: 6.50 LB/GAL 778 G/L

SPECIFIC GRAVITY: 0.78

BOILING POINT: <0 - 500 F <-18 - 260 C

MELTING POINT: NOT AVAILABLE

**VOLATILE VOLUME: 56%** 

EVAPORATION RATE: FASTER THAN ETHER

VAP ENSITY: HEAVIER THAN AIR

SOL

/Y IN WATER: N.A.

VOLATILE ORGANIC COMPOUNDS (VOC THEORETICAL - AS PACKAGED): VOLATILE WEIGHT 48.20% LESS WATER AND FEDERALLY EXEMPT SOLVENTS

#### ----SECTION 10 - STABILITY AND REACTIVITY -----

STABILITY: STABLE

CONDITIONS TO AVOID: NONE KNOWN.

INCOMPATIBILITY: NONE KNOWN.

HAZARDOUS DECOMPOSITION PRODUCTS: BY FIRE: CARBON DIOXIDE, CARBON MONOXIDE

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

#### ----SECTION 11 - TOXICOLOGICAL INFORMATION -----

CHRONIC HEALTH HAZARDS: NO INGREDIENT IN THIS PRODUCT IS AN IARC, NTP OR OSHA LISTED CARCINOGEN. REPORTS HAVE ASSOCIATED REPEATED AND PROLONGED OVEREXPOSURE TO SOLVENTS 2PB97

TOXICOLOGY DATA:

CAS NO. INGREDIENT NAME

74-98-6 PROPANE LC50 RAT 4HR: NOT AVAILABLE LD50 RAT: NOT AVAILABLE

106-97-8 BUTANE LC50 RAT 4HR: NOT AVAILABLE LD50 RAT: NOT AVAILABLE

64742-47-8 HEAVY ALIPHATIC SOLVENT LC50 RAT 4HR: NOT AVAILABLE LD50 RAT: NOT AVAILABLE

64742-52-5 HEAVY NAPHTHENIC PETROLEUM OIL LC50 RAT 4HR: NOT AVAILABLE LD50 RAT: NOT AVAILABLE

647 5 NAPHTHENIC OIL L AT 4HR: NOT AVAILABLE LDSG RAT: NOT AVAILABLE

64742-65-0 HEAVY PARAFFINIC OIL LC50 RAT 4HR: NOT AVAILABLE LD50 RAT: NOT AVAILABLE

34590-94-8 2-METHOXYMETHYLETHOXYPROPANOL LC50 RAT 4HR: NOT AVAILABLE LD50 RAT: 5135 MG/KG

628-63-7 AMYL ACETATE LC50 RAT 4HR: NOT AVAILABLE LD50 RAT: 6500 MG/KG

#### ----SECTION 12 - ECOLOGICAL INFORMATION ----

ECOTOXICOLOGICAL INFORMATION: NO DATA AVAILABLE.

#### ----SECTION 13 - DISPOSAL CONSIDERATIONS -----

WASTE DISPOSAL METHOD: WASTE FROM THIS PRODUCT MAY BE HAZARDOUS AS DEFINED UNDER THE RESOURCE CONSERVATION AND RECOVERY ACT (RCRA) 40 CFR 261.

WASTE MUST BE TESTED FOR IGNITABILITY TO DETERMINE THE APPLICABLE EPA HAZARDOUS WASTE NUMBERS.

DO NOT INCINERATE. DEPRESSURIZE CONTAINER. DISPOSE OF IN ACCORDANCE WITH FEDERAL, STATE/PROVINCIAL, AND LOCAL REGULATIONS REGARDING POLLUTION.

#### -----SECTION 14 - TRANSPORT INFORMATION -----

U.S. GROUND (DOT):
MAY BE CLASSED AS CONSUMER COMMODITY, ORM-D
UN1950, AEROSOLS, 2.1, LIMITED QUANTITY, (ERG#126)

CANADA (TDG):
MAY BE CLASSED AS CONSUMER COMMODITY, ORM-D
UN1950, AEROSOLS, CLASS 2.1, LIMITED QUANTITY, (ERG#126)

IMO: MAY BE SHIPPED AS LIMITED QUANTITY UN1950, AEROSOLS, CLASS 2.1, LIMITED QUANTITY, EMS F-D, S-U

#### -----SECTION 15 - REGULATORY INFORMATION -----

SARA 313 (40 CFR 372.65C) SUPPLIER NOTIFICATION:

CAS NO. CHEMICAL/COMPOUND % BY WT % ELEMENT

BARIUM COMPOUND 2 0.06

CALIFORNIA PROPOSITION 65:

WARNING: THIS PRODUCT CONTAINS A CHEMICAL KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER.

TSCA CERTIFICATION: ALL CHEMICALS IN THIS PRODUCT ARE LISTED, OR ARE EXEMPT FROM LISTING, ON THE TSCA INVENTORY.

#### ---SECTION 16 - OTHER INFORMATION ----

THIS PRODUCT HAS BEEN CLASSIFIED IN ACCORDANCE WITH THE HAZARD CRITERIA OF THE CANADIAN CONTROLLED PRODUCTS REGULATIONS (CPR) AND THE MSDS CONTAINS ALL OF THE INFORMATION REQUIRED BY THE CPR.

THE ABOVE INFORMATION PERTAINS TO THIS PRODUCT AS CURRENTLY FORMULATED, AND IS BASED ON THE INFORMATION AVAILABLE AT THIS TIME. ADDITION OF REDUCERS OR OTHER ADDITIVES TO THIS PRODUCT MAY SUBSTANTIALLY ALTER THE COMPOSITION AND HAZARDS OF THE PRODUCT. SINCE CONDITIONS OF USE ARE OUTSIDE OUR CONTROL, WE MAKE NO WARRANTIES, EXPRESS OR IMPLIED, AND ASSUME NO LIABILITY IN CONNECTION WITH ANY USE OF THIS INFORMATION.

SAVOGRAN

TSP TRISODIUM PHOSPHATE

ision: 3/26/2013

Page 1 of 5

#### 1. Product and Company Identification

Product Name : TSP Product Code : 620N Recommended Use: Cleaner

Company Identification:

SAVOGRAN

259 LENOX STREET

PO BOX 130

NORWOOD, MA 02062-0130

Information Phone: 781-762-5400 Emergency Phone: 508-395-0680 Website Address: www.savogran.com

Synonyms: 10621, 10622, 10623, 11625

#### 2. Hazards Identification

ential Health Effects:

Eve:

Eye contact can cause severe irritation, redness, tearing, blurred vision and may cause transient injury to cornea.

Skin:

Prolonged and/or repeated contact may cause irritation and/or dermatitis. Contact with skin causes irritation and positive burns, especially if the skin is wet or moist.

Ingestion:

May cause irritation, burns to mouth and esophagus, Aspiration of the swallowed or vomited product can cause severe pulmonary complications.

Inhalation:

Inhalation of dust can cause nasal and respiratory irritation.

Chronic Overexposure Information:

NO DATA

Teratology and Reproduction Information:

NO DATA

Aggravation of Pre-Existing Conditions:

Inhalation of product may aggravate existing chronic respiratory problems such as asthma, emphysema or bronchitis. Skin contact may aggravate existing skin disease.



SAVOGRAN

vision: 3/26/2013

Page 2 of 5

Label Hazard Statement:

WARNING; Harmful if swallowed. Eye and skin irritant. May cause burns.

OSHA Hazard Communication Standard:

This product is defined as hazardous by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

#### 3. Composition/Information on Ingredients

Component	CAS	ŧ	% b	y Wt.
TRISODIUM PHOSPHATE DODECAHYDRATE EXPOSURE GUIDELINES NOT LISTED	1010	)1-89-0	75%	- 80%
SODIUM SESQUICARBONATE EXPOSURE GUIDELINES NOT LISTED	533-	-96-0	20%	- 25%

#### 4. First Aid Measures

Eyes

Flood with plenty of water with eye lids held open for at least 15 minutes and t medical attention promptly.

Skin:

Remove contaminated clothing. Wash exposed area with soap and water. If symptoms persist, seek medical attention. Launder clothing before reuse.

Ingestion:

Do NOT induce vomiting. If conscious and alert, give 2-4 cupfuls of milk or water. Get medical aid immediately.

Inhalation:

If symptoms develop, immediately move individual away from exposure and into fresh air. Seek immediate medical attention.

Note to Physicians:

Treat symptomatically. No specific antidote available.

#### Fire Fighting Measures

Flammable Properties:

None

Hazardous Combustion Products:

Oxides of sodium and oxides of phosphorus.

inquishing Media:

t combustible. Use extinguishing method suitable for surrounding fire.

Firefighting Procedures:

Solutions in water are moderately to strong alkaline. Wear full protective

SAVOGRAN

ision: 3/26/2013

Page 3 of 5

clothing.

#### 6. Accidental Release Measures

Small Spill:

Wipe or scrape up any material. Wash area thoroughly with detergent and water; ventilate adequately with good fresh air movement at floor level.

Large Spill:

Wipe or scrape up any material. Wash area thoroughly with detergent and water; ventilate adequately with good fresh air movement at floor level.

Environmental Precautions:

Do not release into sewers or waterways.

Methods/Materials for Containment and Cleaning Up:

Shovel up and dispose of at an appropriate waste disposal facility in accordance with current applicable laws and regulations, and product characteristics at time of disposal.

## Handling and Storage

Handling:

Avoid direct or prolonged contact with skin and eyes. Avoid breathing dusts. Do not ingest.

Storage:

Store in an area that is cool and dry. Moisture can cause caking.

#### 8. Exposure Controls/Personal Protection

Airborne Exposure Limits: See Section 3

Engineering Controls:

When a potential for excessive exposure exits, use local ventilation at the point of generation.

Personal Protective Equipment:

Respiratory Protection:

Wear NIOSH/MSHA approved dust respirator, if dust is formed.

Skin Protection:

se dust proof gloves.

Eye Protection:

Use dust proof goggles if dust is irritating eyes.

Method: NO DATA

SAVOGRAN

ision: 3/26/2013

Page 4 of 5

## 9. Physical and Chemical Properties

Boiling Point: NA

Melting Point: NO DATA Freezing Point: NO DATA

Vapor Pressure: NA Vapor Density: NA

Solubility in Water: MODERATE

Evaporation Rate: NA

Flash Point: NA

Lower explosive limit: NO DATA Upper explosive limit: NO DATA

Autoignition Temperature: NO DATA

Specific Gravity: 1.035

pH: 11-12 Odor: None

Appearance:: White crystalline solid

## 10. Stability and Reactivity

Chemical Stability (Conditions to Avoid): Stable

ompatibility:

Solutions in water are highly alkaline and may produce hydrogen gas when in contact with aluminum. Will react with acids to form carbon dioxide.

Hazardous Decomposition Products:

Oxides of sodium and oxides of phosphorus.

Hazardous Polymerization: Will not occur.

#### 11. Toxicological Information

Acute:

This product has not been tested as a whole.

Subchronic:

This product has not been tested as a whole.

Chronic/Carcinogenicity:

Not listed by ACGIH, IARC, NIOSH, NTP or OSHA

Routes of Exposure: Inhalation, Ingestion

#### Ecological Information

Environmental Fate: While the alkalinity of this material is readily reduced in natural waters, the resulting phosphate may persist indefinitely or incorporate into biological systems.

SAVOGRAN

ision: 3/26/2013

Page 5 of 5

#### 13. Disposal Considerations

Waste Disposal Method:

Small quantities may be deposited in general trash and residue flushed down drain with water. Large spills must be disposed of in accordance with local state and federal regulations.

#### 14. Transport Information

Land Transport (DOT): Not Regulated

#### 15. Regulatory Information

U.S. Federal Regulations:

TSCA: The intentional ingredients of this product are listed. OSHA: The intentional ingredients of this product are listed.

CERCLA: SARA Hazard Category: None

Section 313: Not Listed

Reportable Quantity: Product Component (Trisodium Phosphate

Dodecahydrate-5000lb)

State Regulations:

NO DATA

Volatile Organic Compounds: None

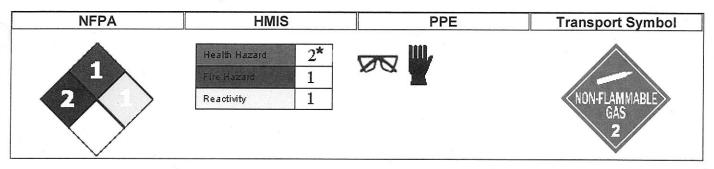
#### 16. Other Information:

NFPA Ratings: 2,0,0

Manufacturer Disclaimer:

Judgement of potential hazards of this product is based on information available about individual components listed under section 3 - Ingredients. Direct testing of mixture has not been done. Information given herein is believed to be accurate and is given in good faith. However, no warranty either expressed or implied is made. It is strongly suggested that users confirm in advance of need that the information is current and applicable to their situations.

## **Material Safety Data Sheet**



Issuing Date 27-Feb-2007

**Revision Date** 

**Revision Number 0** 

#### 1. PRODUCT AND COMPANY IDENTIFICATION

Product Name Touch 'n Foam Professional Quick Cure Polyurethane Insulating Sealant

Touch 'n Seal Quick Cure Polyurethane Foam Sealant RX (cylinder) Touch 'n Seal Quick Cure Polyurethane Foam Sealant HY (cylinder)

Touch 'n Seal Mine Block Mortar

Recommended Use

Insulation

**Supplier Address** 

Convenience Products, division of Clayton Corp.

866 Horan Drive

Fenton, MO 63026-2416 USA

TEL: (636) 349-5855

**Emergency Telephone Number** 

Chemtrec 1-800-424-9300 (703) 527-3887 outside US

#### 2. HAZARDS IDENTIFICATION

## WARNING!

#### **Emergency Overview**

Contents under pressure.

May be harmful if swallowed, inhaled, or absorbed through skin

May cause sensitization by skin contact May cause allergic respiratory reaction.

Persons allergic to isocyanates, and particularly those suffering from asthma or other respiratory conditions, should not work with isocyanates.

Vapors may be irritating to eyes, nose, throat, and lungs.

May cause drowsiness and dizziness.

Appearance Pale Amber

Physical State Aerosol Liquid

Odor Faint hydrocarbon

Potential Health Effects

Principle Routes of Exposure

Inhalation, Skin contact, Eye contact.

**Acute Toxicity** 

Eyes Skin Irritating to eyes. Risk of serious damage to eyes.

Harmful in contact with skin. Will bond to skin. May cause sensitization by skin contact.

Repeated or prolonged skin contact may cause allergic reactions with susceptible persons.

Harmful by inhalation. Irritating to respiratory system. May cause allergic respiratory reaction.

Intentional misuse by deliberately concentrating and inhaling contents may be harmful or fatal.

Inhalation of vapors in high concentration may cause shortness of breath (lung edema). May

cause allergy or asthma symptoms or breathing difficulties if inhaled.

WPS-CC-016 - Touch 'n Foam Professional Quick Cure Polyurethane Insulating Sealant (cylinder) Touch 'n Seal Quick Cure Polyurethane Foam Sealant RX (cylinder) Touch 'n Seal Quick Cure Polyurethane Foam Sealant HY (cylinder)

Ingestion May be harmful if swallowed. May cause additional affects as listed under "Inhalation".

Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Product may cure in the gastrointestinal tract and form an obstruction. May cause adverse cardiac effects,

blood disturbances, and metabolic acidosis.

Chronic Effects Repeated or prolonged exposure may cause central nervous system damage. Intentional

misuse by deliberately concentrating and inhaling contents may be harmful or fatal. Chronic hydrocarbon abuse has been associated with irregular heart rhythms and potential cardiac

arrest. Repeated or prolonged contact causes sensitization, asthma and eczemas.

Aggravated Medical Conditions Allergies. Skin disorders. Respiratory disorders. Central nervous system. Preexisting eye

disorders. Kidney disorders. Liver disorders.

Interactions with Other Chemicals Irritants. Sensitizers. Epoxies. Use of alcoholic beverages may enhance toxic effects.

Environmental Hazard See Section 12 for additional Ecological information

#### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	Weight %
Chlorodifluoromethane	75-45-6	10-30
Flame Retardant	Proprietary	5-10
Polymethylene polyphenylene isocyanate	9016-87-9	10-30
Methylene bisphenyl isocyanate (MDI)	101-68-8	10-30
Polyol blend	Proprietary	10-30
Methylenediphenyl diisocyanate	26447-40-5	1-5

## 4. FIRST AID MEASURES

General Advice Call 911 or emergency medical service. Remove and isolate contaminated clothing and shoes.

Eye Contact In case of contact with substance, immediately flush skin or eyes with running water for at least

20 minutes.

Skin Contact Wash off immediately with soap and plenty of water removing all contaminated clothes and

shoes. Remove and wash contaminated clothing before re-use. Wash off immediately with

plenty of water. If skin irritation persists, call a physician.

Inhalation Move victim to fresh air. Apply artificial respiration if victim is not breathing. Administer oxygen

if breathing is difficult.

Ingestion Call a physician or Poison Control Center immediately. Do not induce vomiting. Rinse mouth.

Drink plenty of water. Never give anything by mouth to an unconscious person.

Notes to Physician May cause sensitization of susceptible persons. Treat symptomatically. Keep victim warm and

quiet.

Protection of First-aiders Ensure that medical personnel are aware of the material(s) involved, and take precautions to

protect themselves.

#### 5. FIRE-FIGHTING MEASURES

Flammable Properties

Containers may explode when heated.

Flash Point

None

Touch 'n Seal Quick Cure Polyurethane Foam Sealant RX (cylinder)

Touch 'n Seal Quick Cure Polyurethane Foam Sealant HY (cylinder)

Suitable Extinguishing Media

Dry chemical, CO2, water spray or regular foam. Water spray, fog

or regular foam. Move containers from fire area if you can do it without risk. Dike fire-control water for later disposal.

Unsuitable Extinguishing Media

Do not scatter spilled material with high pressure water streams.

**Explosion Data** 

Sensitivity to mechanical impact Sensitivity to static discharge None None

Specific Hazards Arising from the Chemical

Ruptured cylinders may rocket.

Protective Equipment and Precautions for Firefighters

Wear self-contained breathing apparatus and protective suit.

**NFPA** 

Health Hazard 2

Flammability 1

Stability 1

Physical and Chemical

Hazards -

**HMIS** 

Health Hazard 2\*

Flammability 1

Stability 1

Personal Precautions -

## 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions

Do not touch or walk through spilled material. Stop leak if you can do it without risk.

**Methods for Containment** 

If possible, turn leaking containers so that gas escapes rather than liquid. Allow substance to

evaporate. Dike to collect large liquid spills.

Methods for Cleaning Up

Soak up with inert absorbent material. Sweep up and shovel into suitable containers for

disposal. Do not direct water at spill or source of leak.

Other Information

Ventilate the area.

#### 7. HANDLING AND STORAGE

Handling

Avoid contact with skin, eyes and clothing. Wear personal protective equipment. Remove and wash contaminated clothing before re-use. Do not breathe vapors or spray mist. Do not eat, drink or smoke when using this product. Use only in area provided with appropriate exhaust ventilation. Ensure adequate ventilation. Avoid breathing vapors or mists. Contents under pressure. Do not puncture or incinerate cans. Do not stick pin or any other sharp object into opening on top of can.

Storage

Keep out of the reach of children. Keep containers tightly closed in a cool, well-ventilated place. Keep at temperatures below 48.8 °C / 120 °F.

#### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

#### **Exposure Guidelines**

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Chlorodifluoromethane	TWA: 1000 ppm	TWA: 1000 ppm TWA: 3500 mg/m <sup>3</sup>	
Methylene bisphenyl isocyanate (MDI)	TWA: 0.005 ppm	Ceiling: 0.02 ppm Ceiling: 0.2 mg/m³	75 mg/m <sup>3</sup>

NIOSH IDLH: Immediately Dangerous to Life or Health

Touch 'n Seal Quick Cure Polyurethane Foam Sealant RX (cylinder) Touch 'n Seal Quick Cure Polyurethane Foam Sealant HY (cylinder)

**Engineering Measures** 

Showers

Eyewash stations Ventilation systems

Personal Protective Equipment

Eye/Face Protection Skin and Body protection Respiratory Protection Tightly fitting safety goggles.

Lightweight protective clothing. Impervious gloves.

If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory

protection should be worn. Respiratory protection must be provided in accordance with

current local regulations.

Hygiene Measures

When using, do not eat, drink or smoke. Wear suitable gloves and eye/face protection.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance** 

Pale Amber

Odor

Faint hydrocarbon

**Odor Threshold** 

No information available

**Physical State** 

Aerosol Liquid

pH

No information available

Flash Point

None

**Autoignition Temperature** 

Not applicable

Decomposition temperature

Flammability Limits in Air

No data available

Boiling Point/Range

-41°C / -42°F

Melting Point/Range

No data available

No data available

Explosion Limits

No data available

Specific Gravity

12

Water Solubility

Not Compatible

Solubility

Compatible.

**Evaporation Rate** 

No data available

Vapor Pressure

No data available

Vapor Density

No data available

VOC Content

Not applicable

EPA VOC (g/I)

0

Partition Coefficient (n-

octanol/water)

No data available

#### 10. STABILITY AND REACTIVITY

Stability

Stable under recommended storage conditions

Conditions to Avoid

Keep away from open flames, hot surfaces and sources of ignition.

Temperatures above 48.8 °C / 120 °F.

Incompatible Products

Water. Alcohols. Strong bases. Strong oxidizing agents. Finely

powdered metals.

**Hazardous Decomposition Products** 

Carbon monoxide (CO), Carbon dioxide (CO2), Nitrogen oxides

(NOx), Hydrogen cyanide.

Hazardous Polymerization

Hazardous polymerization does not occur

#### 11. TOXICOLOGICAL INFORMATION

**Acute Toxicity** 

Product Information

Product does not present an acute toxicity hazard based on known or supplied information

Touch 'n Seal Quick Cure Polyurethane Foam Sealant RX (cylinder)

Touch 'n Seal Quick Cure Polyurethane Foam Sealant HY (cylinder)

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Chlorodifluoromethane	1	(6)	220000 ppm (Rat) 4 h
Flame Retardant	1850 mg/kg (Rat)	2000 mg/kg (Rat) 23700 mg/kg (Rabbit)	5.22 mg/L (Rat) 4 h
Polymethylene polyphenylene isocyanate	49 g/kg (Rat)	9400 mg/kg(Rabbit)	490 mg/m³ (Rat) 4 h
Methylene bisphenyl isocyanate (MDI)	9200 mg/kg ( Rat )		
Polyol blend	64 mL/kg (Rat)	20 mL/kg (Rabbit)	
Methylenediphenyl diisocyanate		6200 mg/kg (Rabbit)	0.369 mg/L (Rat) 4 h

#### Subchronic Toxicity (28 days)

**Chronic Toxicity** 

**Chronic Toxicity** 

Repeated or prolonged exposure may cause central nervous system damage. Intentional misuse by deliberately concentrating and inhaling contents may be harmful or fatal. Chronic hydrocarbon abuse has been associated with irregular heart rhythms and potential cardiac arrest. Repeated or prolonged contact causes sensitization, asthma and eczemas.

Carcinogenicity

There are no known carcinogenic chemicals in this product.

Mutagenicity

Reproductive Toxicity

This product does not contain any known or suspected reproductive hazards

**Target Organ Effects** 

Central nervous system (CNS), Eyes, Respiratory system, Central Vascular System (CVS),

Kidney, Liver, spleen.

**Endocrine Disruptor Information** 

This product does not contain any known or suspected endocrine disruptors

## 12. ECOLOGICAL INFORMATION

#### **Ecotoxicity**

Ecotoxicity effects.

Chemical Name	Toxicity to Algae	Toxicity to Fish	Microtox	Daphnia Magna (Water Flea)
Flame Retardant	EC50 > 10 mg/L 72 h			EC50 3.9 - 5.5 mg/L 48 h
Methylenediphenyl diisocyanate	EC50 = 3230 mg/L 96 h			EC50 > 1000 mg/L 24 h

Chemical Name	Log Pow
Chlorodifluoromethane	1.08

#### 13. DISPOSAL CONSIDERATIONS

Waste Disposal Method

This material, as supplied, is not a hazardous waste according to state and federal regulations

(40 CFR 261)

Contaminated Packaging

Dispose of in accordance with local regulations

## 14. TRANSPORT INFORMATION

DOT

Proper Shipping Name

Compressed Gases, N.O.S. (chlorodifluoromethane)

Hazard Class Description 2.2 UN 1956

Compressed Gases, N.O.S. (chlorodifluoromethane)

**TDG** 

**Proper Shipping Name** 

Compressed Gases, N.O.S. (chlorodifluoromethane)

Touch 'n Seal Quick Cure Polyurethane Foam Sealant RX (cylinder) Touch 'n Seal Quick Cure Polyurethane Foam Sealant HY (cylinder)

•	14.	TE	AAS	ISP	ORT	INFO	RMA'	TION
10.	A COLUMN	All Control of the Control						

Hazard Class 2.2 UN-No UN1956

**Description** Compressed Gases, N.O.S. (chlorodifluoromethane),2.2,UN1956

<u>MEX</u>

Proper Shipping Name Compressed Gases, N.O.S. (chlorodifluoromethane)

Hazard Class 2.2 UN-No UN1956

**Description** UN1956 Compressed Gases, N.O.S. (chlorodifluoromethane),2.2,

<u>ICAO</u>

UN-No UN1956

Proper Shipping Name Compressed Gases, N.O.S. (chlorodifluoromethane)

Hazard Class 2

**Description** Compressed Gases, N.O.S. (chlorodifluoromethane), UN1956

<u>IATA</u>

UN-No UN1956

Proper Shipping Name Compressed Gases, N.O.S. (chlorodifluoromethane), non-flammable

Hazard Class 2.2 ERG Code 2L

**Description** UN1956, Compressed Gases, N.O.S. (chlorodifluoromethane), non-flammable,2.2

IMDG/IMO

Proper Shipping Name Compressed Gases, N.O.S. (chlorodifluoromethane)

 Hazard Class
 2

 UN-No
 UN1956

 EmS No.
 F-D, S-U

**Description** UN1956, Compressed Gases, N.O.S. (chlorodifluoromethane),2

RID

Proper Shipping Name Compressed Gases, N.O.S. (chlorodifluoromethane) Hazard Class 2

Hazard Class 2
UN-No UN1956
Classification Code 5A

**Description** UN1956 Compressed Gases, N.O.S. (chlorodifluoromethane),2,,RID

ADR/RID-Labels

<u>ADR</u>

Proper Shipping Name Compressed Gases, N.O.S. (chlorodifluoromethane)

Hazard Class 2
UN-No UN1956
Classification Code 5A

ADR/RID-Labels 5/

<u>ADN</u>

Proper Shipping Name Compressed Gases, N.O.S. (chlorodifluoromethane)

Hazard Class 2 Classification Code 5A

Special Provisions 63, 190, 191, 277, 913

**Description** UN1956 Compressed Gases, N.O.S. (chlorodifluoromethane),2

Hazard Labels

Limited Quantity See SP277

Touch 'n Seal Quick Cure Polyurethane Foam Sealant RX (cylinder)

Touch 'n Seal Quick Cure Polyurethane Foam Sealant HY (cylinder)

## 15. REGULATORY INFORMATION

#### **International Inventories**

**TSCA** Complies DSL Complies **EINECS/ELINCS** Complies **ENCS** Complies CHINA Complies KECL Complies **PICCS** Complies **AICS** Complies

#### **U.S. Federal Regulations**

#### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

Chemical Name	CAS-No	Weight %	SARA 313 - Threshold Values
Chlorodifluoromethane	75-45-6	10-30	1.0
Polymethylene polyphenylene isocyanate	9016-87-9	10-30	1.0
Methylene bisphenyl isocyanate (MDI)	101-68-8	10-30	1.0
Methylenediphenyl diisocyanate	26447-40-5	1-5	1.0

#### SARA 311/312 Hazard Categories

Acute Health Hazard	Yes
Chronic Health Hazard	Yes
Fire Hazard	Yes
Sudden Release of Pressure Hazard	Yes
Reactive Hazard	No

#### Clean Water Act

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

Chemical Name	Hazardous Substances RQs	Extremely Hazardous Substances RQs
Methylene bisphenyl isocyanate (MDI)	5000 lb	

#### **U.S. State Regulations**

#### California Proposition 65

This product does not contain any Proposition 65 chemicals.

#### U.S. State Right-to-Know Regulations

Chemical Name	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Methylene bisphenyl isocyanate (MDI)	X	Х	X	Х	Х
Chlorodifluoromethane	Х	Х	X	=	X

#### International Regulations

WPS-CC-016 - Touch 'n Foam Professional Quick Cure Polyurethane Insulating Sealant (cylinder) Touch 'n Seal Quick Cure Polyurethane Foam Sealant RX (cylinder) Touch 'n Seal Quick Cure Polyurethane Foam Sealant HY (cylinder)

Mexico - Grade

The exposure limits values for 101-68-8 are listed under two synonyms: Diphenylmethane diisocyanate - 0.02 ppm TWA; 0.2 mg/m³ TWA Methylene bisphenyl isocyanate - 0.005 ppm TWA; 0.051 mg/m³ TWA

Chemical Name	Carcinogen Status	Exposure Limits
Methylene bisphenyl isocyanate (MDI)		Mexico: TWA= 0.2 mg/m <sup>3</sup>
		Mexico: TWA= 0.02 ppm
		Mexico: TWA= 0.005 ppm
		Mexico: TWA= 0.051 mg/m <sup>3</sup>
Chlorodifluoromethane		Mexico: TWA= 3500 mg/m <sup>3</sup>
* '		Mexico: TWA= 1000 ppm
		Mexico: STEL= 1250 ppm
		Mexico: STEL= 4375 mg/m <sup>3</sup>

#### Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

#### WHMIS Hazard Class

A Compressed gases



Chemical Name	NPRI
Methylene bisphenyl isocyanate (MDI)	X
Chlorodifluoromethane	X

#### Legend

NPRI - National Pollutant Release Inventory

#### **16. OTHER INFORMATION**

**Issuing Date** 

27-Feb-2007

**Revision Date** 

**Revision Note** 

No information available

#### Disclaimer

The information provided on this MSDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

**End of MSDS** 

## **Corrosion Technologies Corporation**

P. O. Box 551625

Dallas, Texas 75355-1625

(972) 271-7361 Fax: (972) 278-9721

## **AEROSOL**

Corrosion X® M.S.D.S.

#### MATERIAL SAFETY DATA SHEET

#### SECTION 1: PRODUCT INFORMATION

Name:

Corrosion X (AEROSOL)

Description: Corrosion Inhibitor / Moisture Displacer / E.P. Lubricant

Use: Corrosion Inhibitor / Penetrant / Lubricant For Marine environments / For Ferrous, Non-ferrous and

dissimilar metal surfaces / wherever there is excessive moisture

MSDS Number: 1009-CT

Appearance: Dark amber liquid

(800) 638-7361 (Or consult local poison control center) Emergency Telephone:

Product Information: (972) 271-7361

Effective Date: 04/05/07 Supercedes Date: 05/08/03

#### **SECTION 2: COMPOSITION**

The precise composition of this mixture is proprietary information. A complete disclosure will be provided to a physician or nurse in the event of a medical emergency.

#### **SECTION 3: HAZARDOUS INGREDIENTS**

OSHA PEL	<u>% Wt.</u>	CAS#
5 mg/m³ (oil mist)	64-70	72623-85-9
100 ppm (vapor)	5-10	64742-47-8
Not determined	15	

#### **SECTION 4: CHEMICAL CHARACTERISTICS**

% Non-Volatiles (by weight): >80%

Volatile Organic Compound: 253g/L

Boiling Point:

Base Stock: Hydrocarbon Solvent: Propellant:(Hydrocarbon A108)

>400 degrees F. (without propellant)

Vapor Pressure (mm Hg @ 38° C): 1 mm Hg. (without propellant)

Vapor Density: (Air = 1):

Melting Point: Not Applicable

Solubility in Water: Slightly emulsifiable Evaporation Rate (Butyl Acetate = 1): <.01 (without propellant)

Specific Gravity typ. (Water = 1): 0.871

#### SECTION 5: EMERGENCY & FIRST AID PROCEDURES

Remove excess by wiping and follow by washing with soap and water until there is no odor.

Eyes: Flush with copious quantities of water (15 minutes). Lift Eyelids and flush inside. Seek Physician if

eves become inflamed

Inhalation: Evacuate to fresh air. Apply CPR if required. If resuscitation is required, assessment by a Physician is

Ingestion: DO NOT INDUCE VOMITING. If vomiting occurs, take care to prevent aspiration. Give ½ pint of milk

to drink. Seek aid of a physician. Note to Physician: Consult standard literature re: Hydrocarbon

#### **SECTION 6: HEALTH EFFECTS SUMMARY**

Primary Route(s) of Exposure: Skin-NO Inhalation-YES Ingestion-YES

Essentially non-irritating, however vapors and/or mists may cause mild irritation. Severity of reaction Eye Contact: depends upon duration of exposure and first aid procedures administered. Over exposure may cause

Skin Contact: Non-irritating. \*\*LD50 absorption for skin is >5000 mg/kg (rat, dermal). Prolonged or repeated contact

with has not been a cause of defatting or dermatitis in normal day to day handling of material. Effects of

over exposure may be dry, chapped skin. \*\*Based on toxicity of Petroleum Distillate.

Non-toxic, \*LC50 = 5000 ppm (rat, inhalation). Prolonged exposure may cause mild irritation to nose, Inhalation\*:

throat or upper respiratory tract. If over-exposure occurs - may cause dizziness or headaches or

nausea.

\*Based on toxicity of components

Practically non- toxic \*\*LD50 >5000 mg/kg. (rat, oral) May be harmful or fatal if large amounts are Ingestion\*\*:

swallowed. May cause mild irritation of mouth, throat or esophagus. Can cause nausea, vomiting or

gastrointestinal upset. May cause diarrhea \*\*Based on toxicity of Petroleum Distillate.

Carcinogenicity: Non-carcinogenic as listed by: ACGIH, IARC MONOGRAPHS, or OSHA. (Based on toxicity reports of

component parts).

#### SECTION 7: REACTIVITY DATA

Product Stability:

Stable

Incompatibility

Oxidizing Materials such as Liquid or Compressed Oxygen, Peroxides or Chlorine.

Hazardous Decomposition:

Burning produces normal by-products of petroleum combustion including Carbon Monoxide.

Hazardous Polymerization: Will not occur.

#### SECTION 8: FIRE & EXPLOSION HAZARDOUS INFORMATION

Flash Point:

>270 degrees F. (Method COC) (without propellant) Solvent Component LEL: 0.7 UEL: 4.8

Flammable Limits: Extinguishing Media:

C02, Dry Chemical, Foam, Water Spray.

Fire Fighting Procedures:

Use full protective and self-contained breathing apparatus. Cover with an extinguishing agent. Do

NOT spray with water using a direct stream into the burning liquid as this may spread the fire. Use

a water spray or mist to cool the fire.

Explosion Hazards:

Aerosol containers may explode when heated above 120F.

Fire Hazard Identification:

NFPA STD. 704

Health - 1 Flammability - 4 (propellant)

Reactivity - 0

## SECTION 9: SAFETY PRECAUTIONS FOR SAFE HANDLING

Steps to be taken in case of a spill:

Eliminate sources of ignition. Stop or reduce flow by means of a dyke or barricade. Absorb small spills using dry clay or a commercial absorbent. Collect residue into suitable container for proper

Waste disposal method:

disposal. Material may be washed into floor drains equipped with an oil interceptor. Dispose of in an approved landfill site or incinerate at a licensed waste reclaiming facility. Liquid

waste may be removed by means of a licensed reclaimer under used oil classification. Be sure to

follow all Local, State, & Federal Requirements.

#### **SECTION 10: CONTROL MEASURES**

Ventilation:

Provide sufficient ventilation by general or mechanical means to ensure that exposure levels are

kept below combustible limits.

Respiratory Protection:

None normally needed unless atomizing in enclosed or confined spaces. Use approved organic mist vapor respirator.

Eye Protection:

None normally required unless operator is using high pressure spraying equipment and splashing

may be likely to occur. Use approved face mask or goggles.

Protective Gloves:

None needed

Protective Clothing:

None needed

Personal Hygiene:

Wash face and hands with soap and water after use. Especially before eating or smoking or using

the restroom facilities. Launder soiled clothing and shoes / boots with detergent. Apply mild hand

cream if hands become dry or chapped.

#### SECTION 11: LABEL & TRANSPORTATION INFORMATION

Dot Shipping Name:

Consumer Commodity

DOT identification Number:

N/A

#### **SECTION 12: REGULATORY INFORMATION**

#### SARA TITLE III INFORMATION:

Section 313 - Toxic Chemicals:

This product does not contain any chemicals which are listed as a carcinogen and in

concentrations greater than 0.1% of the mixture pursuant to Section 313 of Sara Title III.

Section 302-Extremely Hazardous

Pursuant to Section 302 of SARA TITLE III, this product does not contain an extremely hazardous substance in concentrations greater than 1%.

Substances: Material Information System (WHMIS)

This product is not known to contain greater than 1.0% of any chemical substance which is

considered Extremely Hazardous.

#### **SECTION 13: USERS RESPONSIBILITY**

A bulletin such as this cannot be expected to cover all possible individual situations. As the user has the responsibility to provide a safe workplace, all aspects of an individual operation should be examined to determine if, or where, precautions - in addition to those described herein - are required. Any health hazard and safety information contained here in should be passed on to your customers or employees, as the case may be.

#### **SECTION 14: DISCLAIMER OF LIABILITY**

The information contained herein is, to the best of our knowledge and belief, accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results and assume no liability for damage incurred by use of this material. All chemicals may present unknown health hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards which exist. Final determination of suitability of the chemical and application of such products is the sole responsibility of the user. No representations or warranties, either expressed or implied, of merchantability, fitness for a particular purpose or any other nature are made hereunder with respect to the information contained herein or the chemical to which the information refers. It is the sole responsibility of the user to comply with all applicable Federal, State and Local Laws and Regulations. Any questions with regards to information contained herein should be referred to: Corrosion echnologies Corp. (972) 271-7361.



# This Stuff Works, Inc. (TSW)

This Stuff Works, Inc. P.O. Box 2510 Livermore, California 94551 Daytime Phone: 800-447-2334 Emergency: Chem-Tel 800-255-3924 Date Compiled: April 23, 2010

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#### SECTION 1: PRODUCT IDENTIFICATION

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Product name: **TSW4 ACRYLI-MASTER (Semi-Gloss)**Synonym/Chemical name/Common name: Protective coating
DOT hazard class: Not classified as hazardous by DOT
Proper shipping name: Compound, cleaning, liquid

#### SECTION 2: INGREDIENT INFORMATION

Hazardous Ingredients
Ethylene glycol butyl ether
CAS# 111-76-2

|Wgt %| Toxicity Data

This product contains no chemical at a level which poses a significant risk as defined by California Proposition 65.

This product contains no toxic chemical, above its de minimis concentration, subject to reporting requirements of Title III SARA, section 313 EPCRA (40 CFR 372).

SECTION 3: PHYSICAL CHARACTERISTICS

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Specific Gravity  $(H_2O=1)$ : 1.2 Vapor pressure: 17.2 (water)

Vapor density (Air=1): No vapors are produced

Percentage volatile by weight: 74.0

Solubility in water: Miscible pH (Undiluted): 9.0 to 10.0 Evaporation rate (H<sub>2</sub>O=1): 1

Freezing point: 32°F Boiling point: 212°F

Appearance and odor: White, translucent liquid with bland odor

## SECTION 4: FIRE AND EXPLOSION HAZARDS

Flash point: Nonflammable Flash point test method: N/A Flammability limits: N/A

Extinguishing media: Treat primary fire Special fire fighting procedures: None Unusual fire or explosive hazards: None

#### SECTION 5: REACTIVITY DATA/CONDITIONS TO AVOID

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Stability: Stable

Incompatibilities (Conditions to avoid): None are known

Hazardous decomposition products: None Hazardous polymerization will not occur.

Conditions to avoid: None

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#### SECTION 6: HEALTH HAZARDS/FIRST AID

Primary routes of entry: None

Signs and symptoms: Product is irritating to eyes.

First aid procedures: For eye contact flush with large amounts of water. If irritation persists, contact a physician.

Use of this product causes no known chronic health effects.

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## SECTION 7: PERSONAL PROTECTION RECOMMENDATIONS

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Respiratory protection: None

Ventilation: Use with adequate ventilation

Protective gloves: Rubber gloves are recommended for prolonged or repeated contact

Eye protection: Guard against splashing into eyes

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## SECTION 8: STORAGE/SPILL/SPECIAL HANDLING INFORMATION

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Steps to be taken in case of spill: Wet material is slippery. Spilled material will dry hard and will be difficult to remove. Remove with rags, mops, or by flushing with water.

Waste disposal: Follow all local, state, and federal waste disposal regulations.

Special storage or handling precautions: Do not expose to freezing temperatures.

N/D=Not determined

N/A=Not applicable

This Material Safety Data Sheet is written and provided in good faith for the sole purpose of providing information for the safe use and handling of this product. It is compiled from technical data believed to be current and correct. It should not be taken as a warranty or representation for which This Stuff Works, Inc. assumes any legal responsibility. The buyer assumes all responsibilities of using and handling the product in accordance with local, state and federal regulations.